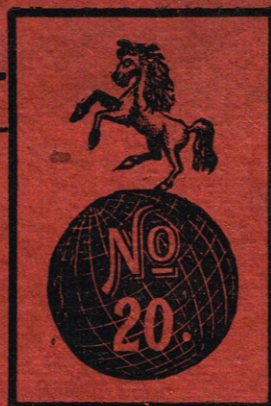




Established in 1841.



THE "INVICTA"
ILLUSTRATED
PRICE LIST

. OF .

**MECHANICS' TOOLS
AND MACHINERY**

MANUFACTURED, FACTORED,
OR IMPORTED AND SOLD BY

CHARLES NURSE & CO., LTD.

Plane Makers, Tool Merchants and Cutlers,
181 & 183 WALWORTH ROAD,
LONDON, S.E. 17

REGISTERED OFFICES:

181 and 183 WALWORTH ROAD, LONDON, S.E. 17
TELEPHONE-CENTRAL 11521.

WAREHOUSES AND WORKSHOPS:

COLWORTH GROVE, YORK ST., WALWORTH ROAD, S.E. 17
TELEPHONE-HOP 4585.



GOLD MEDAL
for General Excellence of
PLANES AND TOOLS.
PARIS, 1919.



CATALOGUE No. 20.



DIRECTORS:
JOHN OSBORN (MAN'G DIRECTOR), JOHN OSBORN, JUNR.,
ERNEST R. PATERNOSTER, ALFRED G. ETHERIDGE,
LEONARD T. BETTRIDGE (SECY.).

CHARLES NURSE & Co., LTD.,

Plane Makers, Tool Merchants, and Cutlers,

181 & 183 Walworth Road, London, S.E. 17

Workshops and Warehouses: Colworth Grove, York St., Walworth Rd., S.E. 17.

Telephones: { Office - - CENTRAL 11521.
Warehouse HOP - 4585.

PREFACE

IN issuing the first post-war edition of our Catalogue, we feel that some explanation of its reduced size is necessary. As most of our customers are aware, market conditions are as yet far from normal; supplies of materials are still short of the demand, and consequently deliveries and prices are still uncertain. In these circumstances we have thought it advisable to reduce the number of items in the Catalogue, showing only those goods most frequently required, and we shall do our utmost to maintain good stocks of all those articles which appear in this edition. We shall, of course, be pleased to have enquiries for any articles not shown.

Prices have, unfortunately, been advancing while this Catalogue was in the printer's hands, and it will be necessary to issue correction sheets with it, but the prices are at least more nearly up-to-date than those in the last edition issued before the war, and will serve as a guide. We regret that it is impossible now to maintain quotations for any length of time, and we are only able to give firm quotations on definite specifications and for immediate acceptance.

During 1917, this business was incorporated as a private limited liability company, but this does not indicate any change in proprietorship or management.

We have now closed our City branches, and transferred their stock and accounts to our Main Depot at Walworth Road. The Finsbury Branch had to be closed in 1916 owing to shortage of staff, all those fit for service being then in the Army. The lease of the Fleet Street premises expired at Christmas, 1919, and as we could only renew it on terms that we considered disadvantageous, we decided to close that branch also, and conduct the whole of the business from the one address. The Director formerly in charge of the Fleet Street Branch has now taken charge of the Order Department here.

We take this opportunity to thank our customers for their past support, and shall endeavour to merit their future orders and recommendations.

Charles Nurse & Co., Ltd.

Sole Address:—

“Invicta” Tool Works,

181 & 183 Walworth Road,

London, S.E. 17

Telephones:—

Office: Central 11521.

Warehouse: Hop 4585.

Warranty, Terms, Hours of Business, etc., etc.

WARRANTY.—Every Tool mentioned in this List is Warranted to be of the Best Material, Workmanship, and Finish, and any faulty article will be exchanged (Grindstones excepted) if returned within one month from date of purchase.

PRICES are subject to alterations without notice, and are strictly net.

CASH WITH ORDER.—All Orders must be accompanied by Cheque, Post Office Order, or Postal Note, or the goods cannot be forwarded. No allowance can be made for postage or the cost of forwarding money. Our nearest Post Office is No. 227 Walworth Road; but, to ensure the safety of remittances, Customers are particularly requested to cross all Cheques, Post Office Orders, or Postal Notes—

London, County, Westminster and Parr's Bank,

a/c of CHARLES NURSE & CO., LTD.

In no case can a Ledger Account be opened without the receipt of Two satisfactory Trade or Bank References. When such References are satisfactory, we allow a Monthly Account; but in such cases payment is expected by the 10th of the month following delivery of the goods.

All Export Orders should be accompanied by Banker's Draft or an order for payment on presentation of shipping documents in London.

CARRIAGE.—In consequence of the great increase in Railway charges, all our prices are now estimated Free on Rails, London. In the case of small packages sent per post or passenger train the postage or carriage is charged on invoice, and in remitting cash with order an allowance should be made for this.

Grindstones, Machines, Cast Iron Goods, and similar articles of a damageable nature are sent at consignee's risk.

HOURS OF BUSINESS.—9 a.m. to 7 p.m.; Saturdays, 8 p.m. Early Closing Day, Thursday, 1 p.m.

PARCELS POST.—For small parcels this offers a cheap and expeditious manner of delivery.

The charges are: For parcels up to 3 lbs., 6d.; 7 lbs., 9d.; 11 lbs., 1/-. No parcel can be sent over 11 lb. in weight. Customers are requested to forward sufficient to cover the postal charges; should too much be sent, we shall always be pleased either to return stamps to balance, or to add some small article to make the account correct.

CAUTION.—Whereas many Ironmongers are in the habit of offering to supply Tools at “NURSE & Co.’s

Prices,” but supplying articles that never came from us, we would particularly request that all orders be sent to us *direct*, when they will receive our most careful and prompt attention, and Customers can rely upon receiving goods of the highest possible quality only.

PACKAGES.—We make no charge for packing, but all Cases are charged and allowed for in full when

received by us Carriage Paid and in good condition. Customers should therefore, when returning empties, advise us to this effect the **Same Day**, and should also allow our Labels to remain on the packages in order that we might identify the sender.

EXPORT.—The prices in this Catalogue for all Export Orders are F.O.B. London, and are subject to

charges for special packing, which is priced at Net Cost. Where special limits of size and weights of packages are necessary, our Customers will please advise us on their indents.

In order to ensure complete satisfaction, we advise our Customers to be careful, when ordering through Shippers, to give clear and definite instructions that the goods shall be procured **direct from our House**. By these means they may be sure of receiving the patterns and quality specified in our Catalogue.

BREAKAGES.—We employ experienced Packers, and take great care in the prompt despatch of all

goods from our extensive stock, but we cannot take the risk of breakage of Machines, Grindstones, etc. Carriers will only take these at Owner’s Risk, and our responsibility ceases when we have delivered such goods to the Carriers and have obtained their clear receipts for same. In case of breakage, the claim must be made to them direct; if any difficulty, please advise us. Examine all goods before signing Carrier’s Delivery Sheet.



We have recently received the Gold Medal awarded at the Paris Exhibition of 1919 for General Excellence of Planes and Tools.



INDEX.

A	PAGE
Addis' Carving Tools ...	14, 15
Adze Eye Claw Hammers...	32
Adze Handles ...	1
Adzes ...	1
Aetna Lamps ...	152
Air-Tight Planes ...	42
Alphabet Stamps ...	38
Alundum Wheels ...	126
Amateurs' Lathes ...	143
Amateurs' Turning Tools ...	30
American Braces ...	7
Angle Bending Machines ...	160
Angle Gauges ...	83
Angle Rules ...	93
Angular Bit Stocks ...	5
Angular Boring Machines ...	2
Anvil Stakes ...	157
Anvil, Tinmen's ...	157
Anvils ...	136
Arkansas Oilstones ...	40
Armstrong's Pattern Pipe Cutters ...	105
Armstrong's Stocks and Dies	108
Ash Hammer Handles ...	34
Ash Handled Chisels ...	16, 17
Attachment for Micrometer	78
Attachment for Speed Indicators ...	90
Auger Bits ...	7, 10, 11
Auger Bits, Forstner ...	10
Auger Bits, Russell Jennings	7
Auger Handles ...	3
Auger Gimlets ...	27
Augers, Various ...	1, 2
Automatic Blowpipes ...	140
Automatic Boring Tools ...	24
Automatic Centre Punches	92
Automatic Drill ...	24
Automobile Wrenches ...	101
Awls ...	13
Axe Handles ...	3
Axe Heads ...	4
Axes ...	3
B	
B.A. Taps ...	113
Back Geared Lathes ...	142
Back Saws ...	59, 61
Badger Planes ...	41
Bags, Plumbers' ...	150
Ball Bearing Hand Drills ...	128
Ball Plane Hammers ...	137
Band Saws ...	60
Barnes' Foot Power Scroll Saw	63
Barnes' Pattern Three Wheel Pipe Cutter ...	105
Barnes' Wood Turning Lathe	35
Bars, Lengthening ...	19, 20

	PAGE
Baskets ...	4
Bead Planes ...	42
Beaders ...	69
Beading Machines ...	159
Beam Trammels ...	19
Bed Rock Planes ...	46
Beech Joiners' Mallets ...	34
Bell Centre Punches ...	92
Bell Gimlets ...	27
Bell Pliers ...	99
Bellows ...	135, 136
Belt Fasteners ...	147
Belting ...	146
Bench Drills ...	131 to 133
Bench Grinders ...	124, 125
Bench Hack Saws ...	107
Bench Holdfasts ...	4
Bench Lathes ...	141 to 143
Bench Oil Cans ...	39, 148
Bench Rules ...	57
Bench Screws ...	4
Bench Stops ...	5
Bench Vices ...	74
Bench Wall Drilling Machine	132
Benches, Saw ...	53
Bend Bolts ...	149
Benders, Pipe ...	150
Bending Rollers ...	159
Bending Sticks ...	149
Bent Tinmen's Snips ...	158
Benzoline Blow Lamps ...	152
Bernard Patent Pliers ...	97
Bevel Edge Firmer Chisels	16
Bevel Edge Long Paring Chisels	16
Bevel Protractors ...	85
Bevels ...	5, 84
Bevels, Boatbuilders ...	5
Bevels, Coachmakers' ...	45
Bevels, Engineers ...	84, 85
Bevels, Joiners' ...	5
Bick Irons, Tinmen's ...	157
Bill Hooks ...	3
Billing's Lead Pipe Benders	150
Billing's Wrenches ...	101
Bit Gauges ...	12
Bit Handles ...	12
Bit Stock Drills ...	8
Bit Stock Reamers ...	115
Bit Stocks, Angular ...	5
Bits, Auger ...	7, 10, 11
Bits, Brace, Various ...	7 to 12
Bits, Centre ...	8
Bits, Clark's Expansion ...	9
Bits, Copper ...	151
Bits, Dowel ...	8
Bits, Expansive ...	9
Bits, Irwin's Patent Auger...	7
Bits, Jennings' ...	7
Bits, Machine ...	2

	PAGE
Bits, Slotting ...	12
Bits, Solid Wing Auger ...	7
Bits, Steer's Expansion ...	9
Bits, Taper ...	9
Bits, Turnscrow ...	8
Bits, Unbreakable ...	7
Bits, Wagon Builders' ...	7
Bits, Wood Slotting ...	12
Block Bills ...	3
Block Planes ...	47, 49
Blocks, Scribing ...	86
Blocks, V ...	149
Blow Lamps ...	151 to 153
Blow Pipe, Automatic ...	140
Blow Pipe, Gas ...	140
Blow Pipe, Lever ...	136
Blow Pipes ...	136, 140
Blowers, Foot ...	141
Boatbuilders' Bevels ...	5
Bobbins ...	149
Bolt Croppers ...	106
Bolt Pointers ...	116
Boring Machines ...	2
Boring Machine Augers ...	2
Boring Tools ...	122, 123
Bossing Mallets ...	149
Bossing Sticks ...	149
Bow Saw Handles ...	33
Bow Saws and Frames ...	60
Box Scrapers ...	69
Box Spanners ...	101
Boxes and Taps ...	64
Boxing Routers ...	45
Boxmakers' Planes ...	41
Boxwood Folding Rules ...	56, 57
Boxwood Mallets ...	34
Boxwood Rules ...	56, 57
Boxwood Rules, Coachmakers'	57
Brace Bit Holders ...	10
Brace Bit Rolls ...	10
Brace Bits ...	7 to 12
Brace Jaws ...	12
Brace Wrenches ...	12
Braces ...	6, 7
Braces, Engineers' Ratchet	135
Brad Punches ...	14
Bradawls ...	13
Brass Back Saws ...	59, 61
Brass Gas Stocks and Dies	110
Brass Mitre Templates ...	37
Brass Taps ...	114
Brass Yard Counter Measures	57
Brazer and Forge ...	136
Brazing Lamps ...	152, 153
Breast Drills ...	130
Broach Handles ...	116
Broaches ...	115, 116
Broughton's Countersinks ...	9
Brown and Sharp's Micrometers	78

Index—Continued.

	PAGE		PAGE		PAGE
Brushes, Painters' ...	156	Chisels, Paring ...	16	Cranps, Ribbed G ...	21
Bruzzes ...	30	Chisels, Round Backed ...	16	Cramps, Sash ...	19, 20
Bull-Nose Planes ...	49, 52, 53	Chisels, Round Nose ...	17	Cross Cut Saws ...	60, 61
Bunsen Burners ...	141	Chisels, Sash Mortise ...	18	Curting Gauges ...	26
Burner Pliers ...	100	Chisels, Sash Pocket ...	18	Cutting Nippers ...	55, 58
Burring Machines ...	159	Chisels, Socket ...	17, 18	Cutting-off Tools ...	122
Burring Reamers ...	116	Chisels, Turning ...	17	Cycle Spinners ...	101, 102
Button-Hole Chisels ...	18	Chucks ...	119, 120	Cycle Stocks and Dies ...	111
Button-hole Punches ...	55	Chucks, Almond ...	119		
C		Chucks, Geared Scroll ...	120	D	
Cabinet Files ...	25	Chucks, Goodell ...	119	Dado Grooving Planes ...	43
Calliper Gauges ...	77, 79	Chucks, Independent ...	120	Depth Gauges ...	80
Callipers ...	75, 76	Chucks, Jacobs ...	119	Diamonds ...	28
Canada Oilstones ...	39	Chucks, Lever ...	120	Die Holders ...	113
Canister Stakes, Tinmen's... ..	157	Chucks, Little Giant ...	119	Die Nuts ...	110
Cans, Oil ...	39, 148	Chucks, Star ...	119	Dies ...	113
Canterbury Hammers ...	32	Circular Dies ...	113	Disston's Saw Filers' Vices ...	73
Carborundum Powder ...	28	Circular Forges ...	135	Disston's Saws ...	61
Carpenters' Baskets ...	4	Circular Planes ...	46, 47, 51	Dividers ...	18, 75, 76
Carriage Bits ...	7	Circular Saws ...	60, 64	Dogs ...	22
Carriage Makers' Rabbet Planes	46	Clamps, Parallel ...	90	Double Ended Block Planes ...	47, 49
Carriers, Lathe ...	121	Clamps, Pipe ...	150	Double Ended Spanners ...	103
Carr's Three Way		Clamps, Tool Makers' ...	90	Double Plane Irons ...	46, 54
Tool Holders ...	123	Claw Hammers ...	32	Double Squares ...	87
Carvers' Mallets ...	27	Climax Cramps ...	20	Dovetail Planes ...	50
Carvers' Screws ...	5	Clyburn Spanners ...	102	Dovetail Saws ...	59, 61
Carvers' Slips ...	39, 40	Coach Axes ...	4	Dovetail Tongue and	
Carvers' Tools ...	14, 15	Coach Chisels ...	17	Grooving Plane ...	50
Case Openers ...	33	Coach Cramps ...	21	Dowel Bits ...	8
Casing Wheels ...	156	Coach Makers' Boxwood Rules	57	Dowel Rounders ...	8
Cat Gut ...	146	Coach Makers' Mortise Bevels	45	Draughtsmen's Protractors	85
Caulking Irons ...	34	Coach Makers' Planes ...	45, 46	Draw Bore Pins ...	22
Caulking Mallets ...	34	Coachmakers' Spider Bevels	45	Drawing Knives ...	22
Centre Bits ...	8	Coach Makers' T Bevels ...	45	Dressers ...	149
Centre Drills ...	118	Coach Planes ...	45, 46	Drill Blocks ...	90
Centre Gauges ...	80	Coach Side Axes ...	4	Drill Braces ...	7
Centre Punches ...	91, 92	Coach Wrenches ...	102	Drill, Expansion ...	116
Centre Squares ...	80	Cold Chisels ...	138	Drill Gauges ...	83
Centring Punches ...	92	Columbus Slide Gauges ...	79	Drill Presses ...	129, 131
Chain Pipe Wrenches ...	103	Combination Squares ...	88	Drill Sleeves ...	118
Chalk Line ...	22	Combined Bench and Wall		Drilling Machines ...	131 to 134
Chalk Line Pins and Reels ...	22	Drills ...	132	Drills, Automatic ...	24
Chamfer Planes ...	44	Compass Planes ...	41, 44, 45, 50	Drills, Bench ...	129, 131 to 133
Chamfer Shaves ...	67, 68	Compass Saws ...	59	Drills, Bit Stock ...	8
Chariot Planes ...	53	Compasses ...	18	Drills, Brace ...	8
Charnley Forest Oilstones... ..	39	Contraction Rules ...	94	Drills, Breast ...	130
Chase Wedges ...	149	Cooking Stoves, Oil ...	153	Drills, Centre ...	118
Chasers ...	115	Copper Bits ...	151	Drills, Fluted ...	118
Chesterman's Rules ...	93, 94	Copper Tube Stocks and Dies	110	Drills, Hand ...	23, 128 to 130
Chesterman's Straight Edges	93, 94	Cork Blocks ...	28	Drills, Reciprocating ...	24
Chipping Knives ...	156	Corner Cramps ...	37	Drills, Twist ...	116 to 118
Chisel Handles ...	33	Counter Measures ...	57	Drills, Twist, Square Shank	118
Chisel Knives ...	156	Counters ...	76, 91	Drills, Twist, Taper Shank	117
Chisels ...	16, 17, 18	Counters, Revolution ...	76, 91	Drills, Wall ...	149
Chisels, Bevel-edged ...	16	Counters, Speed ...	91	Drip Plates ...	150
Chisels, Button-hole ...	18	Counters, Veeder ...	76	Driving Wheels ...	125
Chisels, Coachmakers' ...	17	Countersinks ...	9, 73, 116	Dudgeon Pattern Tube	
Chisels, Cold ...	138	Cramp Heads ...	22	Expanders ...	106
Chisels, Drawer Lock ...	18	Cramps ...	19 to 22, 37	Duplex Stocks and Dies ...	109
Chisels, Firmer ...	16	Cramps, Corner ...	37		
Chisels, Gasfitters' ...	18	Cramps, Crampton's ...	20	E	
Chisels Lock Mortise ...	18	Cramps, Flat Bar, Joiners' ...	19	Electricians' Pliers ...	97, 98, 99
Chisels, Millwrights' ...	17	Cramps, Flooring ...	21	Electricians' Turnscrows ...	71
Chisels, Mortise ...	18, 38	Cramps, G ...	20, 21	Emery Cloth ...	28
				Emery Dressers ...	126

Index—Continued.

	PAGE
Emery Grinders ...	124 to 127
Emery Powder ...	28
Emery Wheels ...	126
Engineers' Hammers ...	137
Engineers' Ratchet Braces ...	135
Engineers' Rules ...	93, 94
Engineers' Scrapers ...	92
Engineers' Scribers ...	85
Engineers' Squares ...	87 to 89
Enox Saw Blades ...	107
Expanders, Tube ...	106
Expanding Drills ...	116
Expansion Bits ...	9
Expansion Drills ...	116
Extension Bit Holders ...	6
Extension Hack Saw	

Frames 106, 107

Eyelet Punch ...	100
Eyelets ...	100

F

Fan Forges ...	135
Feeler Gauges ...	81
Felling Axes ...	3
Fence Routers ...	45
Figures ...	38
File Cleaners ...	96
File Handle Grips ...	96
File Handles ...	34, 96
Files ...	25, 95, 96
Fillet Gauges ...	82
Fillister Planes ...	42, 47, 51, 53
Firmer Chisels ...	16
Firmer Gouges ...	29
Fixing Points ...	149
Flooring Cramps ...	21
Flooring Punches ...	14
Fluxite ...	160
Foot Blowers ...	14
Foot Driving Wheels ...	125
Footprint Tube Vices ...	104
Footprint Wrenches ...	102
Forge and Brazier Combined ...	136
Forges ...	135, 136, 140
Forstner Auger Bits ...	10

G

Gas Cramps ...	20, 21
Gas Blowpipes ...	140
Gas Burner Taps ...	114
Gas Die Nuts ...	110
Gas Forges ...	140
Gas Glue Pots ...	28
Gas Heating Soldering	
Iron Stoves ...	151
Gas Pipe Cutters ...	105, 106
Gas Pipe Wrenches ...	102, 103
Gas Pliers ...	97, 100
Gas Stocks and Dies ...	108 to 110
Gas Taps ...	114
Gauges, Adjustable	
Calliper ...	77 to 79
Gauges, Brace Bit ...	12
Gauges, Calliper ...	77 to 79
Gauges, Circular Wire ...	84

	PAGE
Gauges, Columbus Slide ...	79
Gauges, Cutting ...	26
Gauges, Depth ...	80
Gauges, Drill ...	82, 83
Gauges, Feeler ...	81
Gauges, Lead ...	84
Gauges, Marking ...	26
Gauges, Micrometer Calliper ...	77, 78
Gauges, Micrometer Depth ...	80
Gauges, Mortise ...	27
Gauges, Plumbers' ...	84
Gauges, Radius ...	82
Gauges, Roller ...	26
Gauges, Rule Depth ...	80
Gauges, Standard ...	82
Gauges, Surface ...	86
Gauges, Taper ...	83
Gauges, Tapping ...	83
Gauges, Thickness ...	81
Gauges, Thread ...	83
Gauges, Twist Drill ...	83
Gauges, Wire ...	83, 84
Gedge's Augers ...	2
Gedge's Brace Bits ...	7
Gimlet Bits ...	8
Gimlets ...	27
Gimlets, Auger ...	27
Gimlets, Bellhangers' ...	27
Gimlets, Twist ...	27
Glass Cutters ...	28
Glass Paper ...	28
Glaziers' Diamonds ...	28
Glaziers' Putty Knives ...	156
Glue ...	28
Glue Brushes ...	28
Glue Pots ...	28
Glue Pots, Safety ...	28
Goodell Chucks ...	119
Gouge Slips ...	39, 40
Gouges ...	15, 29, 30
Gouges, Carving ...	15
Gouges, Firmer ...	29
Gouges, Paring ...	29
Gouges, Socket ...	29
Gouges, Turning ...	30
Graining Combs ...	156
Grinders ...	124 to 127
Grinding Heads ...	124, 125
Grindstone Rests ...	30
Grindstone Spindles ...	30
Grindstones ...	30, 31
Grooving Planes ...	43, 50
Grooving Punches ...	157
Grooving Routers ...	53
Grooving Stakes,	
Tinmen's ...	157, 158
Guillotine Shears ...	158
Gut Band ...	146
Gut Band Hooks and Eyes ...	146

H

Hack Saw Blades ...	107
Hack Saw Frames ...	106, 107
Hack Saw Machine ...	107
Hacking Knives ...	156

	PAGE
Hammers, Ball Pane ...	137
Hammers, Ball Pane Pin ...	32
Hammers, Canterbury ...	32
Hammers, Claw ...	32
Hammers, Cross Pane Pin ...	32
Hammers, Engineers' ...	137
Hammers, London ...	32
Hammers Pin ...	32
Hammers Plumbers' ...	150
Hammers, Straight Pane ...	137
Hammers, Tinmen's ...	157
Hammers, Upholsterers' ...	33
Hammers, Warrington ...	32
Hand Beaders ...	69
Hand Drills ...	23, 128 to 130
Hand Saws ...	59, 61
Hand Screws ...	5
Hand Vices ...	73
Handles Adze ...	1
Handles, Auger ...	3
Handles, Axe ...	3, 4
Handles, Bow Saw ...	33
Handles, Chisel ...	33
Handles, Hammer ...	34
Handles, Pad Saw ...	34
Handles, Plane ...	34
Handles, Saw ...	33
Hand-rail Punches ...	14
Hardwear Tool Baskets ...	4
Hatchet Stakes, Tinmen's ...	157
Hatchets ...	3
Hercules Cutting Nippers ...	98
Hickory Hammer Handles ...	34
High Speed Drilling	
Machines ...	133, 134
High Speed Drills ...	116, 117
Holdfasts ...	4
Hollow Augers ...	2
Hollows and Rounds ...	43, 44, 48
Hooks and Eyes ...	146
Horizontal Squares, Coach-	
makers' ...	45
Horses, Tinmen's ...	158

I

India Oilstones ...	40
Inlaying Router ...	69
Inside Callipers ...	75, 76
Inside Micrometers ...	77
Iron Bench Screws ...	4
Iron Bench Stops ...	5
Iron Front Smooth Planes ...	41
Iron Fronts ...	54
Iron Gas Stock and Dies ...	108 to 110
Iron Planes ...	46 to 53
Iron Spokeshaves ...	67 to 69
Ironmoulders' Tools ...	154, 155
Irwin Auger Bits ...	7, 11
Ivory Rules ...	57

J

J Hangers ...	146
Jack Planes ...	41, 42, 45, 46, 50, 51
Jarvis Planes, Wheelers' ...	45
Jennies, Tinmen's ...	159

Index—Continued.

	PAGE
Jennings' Auger Bits ...	7
Jennings' Bits in Wood Cases 10, 11	
John Bull Pocket Gauges...	82
Joiners' Baskets ...	4
Joiners' Braces ...	6, 7
Joiners' Cramps ...	19, 20
Joiners' Dogs ...	22
Joiners' Draw Knives ...	22
Joiners' Hammers ...	32
Joiners' Mallets ...	34
Joiners' Scrapers ...	64
Joiners' Squares ...	70
Joiners' Vices ...	74
Joint Cramps ...	22
Jointer Planes ...	42, 46, 51, 52

K

Kaye's Oil Cans ...	148
King Dick Spanners ...	101
Knife Files ...	95
Knurling Tools ...	121

L

Ladder Augers ...	1
Ladles, Plumbers' ...	150
Lamb's Tongue Sash Planes	43
Lamps ...	151 to 153
Lancashire Nippers ...	55
Lancashire Pincers ...	55
Lancashire Pliers ...	99
Lancashire Taper Broaches	115
Langdon Mitre Boxes ...	37
Lathe Boring Tools ...	122, 123
Lathe Carriers ...	121
Lathe Chucks ...	119, 120
Lathe Driving Wheels ...	125
Lathe Gun ...	146
Lathe, Polishing ...	124
Lathe, Power ...	141 to 143
Lathe, Screw Cutting and Boring	142
Lathe Test Indicator ...	87
Lathe Treadle 35, 141, 142,	144
Lathe Turning Tools ...	121
Lathes ...	35, 141 to 144
Lathes, Wood Turning ...	35
Lead and Zinc Gauge ...	84
Lead Beaters ...	149
Lead Dressers ...	149
Lead Pipe Benders ...	150
Lead Seal Closers ...	100
Lead Seals ...	100
Leather Belting ...	146
Leather Washer Cutters ...	145
Leg Vices ...	105
Letter Punches ...	38
Letters ...	38
Level Sights ...	56
Level Tubes ...	66
Levels ...	64 to 56
Lever Blowpipes ...	136
Lever Scroll Chucks ...	120
Lever Shearing Machines ...	139
Lifting Jacks ...	138

	PAGE
Lightning Joiners' Vices ...	74
Line Pins ...	22
Linen Tapes ...	58
Lining or Stringing Routers	59
Little Giant Drill Chucks ...	119
Little Giant Stocks and Dies	109
Lock Joint Callipers ...	75
Lock Joint Dividers ...	75
Lock Mortise Chisels ...	18
Long Flat Nose Pliers ...	99
Long Round Nose Pliers ...	99
Long Thin Paring Chisels ...	16
Long Thin Paring Gouges ...	29
Longshape Bellows ...	136
Lubricators ...	148

M

Macaroni Tools ...	15
Machine Bits ...	2, 12
Machinists' Scribers ...	85
Malleable Carriers ...	121
Mallets ...	34
Mallets, Bossing ...	149
Mallets, Tinmen's ...	34
Mandrels, Tinmen's ...	157
Marking Awls ...	13
Marking Gauges ...	26
Match Planes ...	43, 45, 48
Measuring Tapes ...	58
Melting Pots ...	150
Mercury Plumb Bobs ...	145
Metallic Tapes ...	58
Metric Die Nuts ...	110
Metric Micrometers ...	77, 78
Metric Pitch Gauges ...	82
Micrometer Attachment ...	78
Micrometer Calliper Gauge	77
Micrometer Depth Gauge ...	80
Micrometer Rods ...	77
Micrometers ...	77, 78
Mill Saw Files ...	25
Miller's Falls Drill Presses	129
Miller's Falls Hand Drills ...	128
Miller's Falls Saw Frames	107
Miller's Falls Star Chucks	119
Miller's Falls Tool Pads ...	13
Milling Files ...	96
Milling Wheels ...	121
Mitre Boxes ...	36, 37
Mitre Cramps ...	37
Mitre Machines ...	35, 36, 37
Mitre Planes ...	41
Mitre Squares ...	70
Milling Templets ...	37
Morrill's Saw Sets ...	62
Morse Twist Drills ...	116, 117
Mortise Chisels ...	18
Mortise Gauges ...	27
Mortise Machines ...	38
Motor Punches ...	100
Motor Ratchet Braces ...	135
Motor Spanners ...	101
Moulders' Tools ...	154, 155
Moulding Planes ...	43
Mount Cutters' Knives ...	37

	PAGE
Mount Cutters' Straight Edges	37
Mounted Grindstones ...	31
Mounted Oilstones ...	39, 40
Moving Fillisters ...	42

N

Nail Holders ...	14
Nail Pullers ...	33
Nail Sets ...	14
Name Stamps ...	38
Needle Lubricators ...	148
Nests of Saws ...	59
New Langdon Mitre Boxes	37
Nickel Plated Hand Vices	73
Nippers ...	55, 98
Nippers, Adjustable Jaw ...	98
Nippers, Cutting ...	55, 98
Nippers, End Cutting ...	98
Nippers, Hercules Cutting ...	98
Nippers, Side Cutting ...	98
Non-Leak Oil Cans ...	39
Nut Dies ...	110

O

Oil ...	39
Oil Cans ...	39, 148
Oil Furnaces ...	151
Oil Hole Covers ...	147
Oil Stoves ...	153
Oilstones ...	39, 40
Old Woman's Tooth Planes	44, 51, 53
Ovolo Routers ...	68

P

Pad Saw Handles ...	34
Pad Saws ...	59
Painters' Brushes ...	156
Painters' Lamps ...	152
Palette Knives ...	156
Palmer's Screw Wrenches ...	102
Panel Planes ...	41, 46, 52
Panel Saws ...	59, 61
Paning Down Machines ...	160
Paper, Glass ...	28
Paper Trimmers ...	156
Paraffin Oil Stoves ...	153
Parallel Vices ...	74, 104, 105
Paring Chisels ...	16
Paring Gouges ...	29
Parting Tools ...	15, 18
Pattern Makers' Contraction Rules	94
Pencils ...	55
Perfect Vices ...	104
Pick Axes ...	4
Picture Frame Cramps ...	37
Pillar Drills ...	133, 134
Pin Mauls ...	34
Pin Vices ...	114
Pincers ...	55
Pipe Benders ...	150
Pipe Clamps ...	150
Pipe Cutters ...	105, 106
Pipe Openers ...	150
Pipe Stocks and Dies	108 to 110

Index—Continued.

	PAGE
Pipe Taps	114
Pipe Vices	150
Pipe Wrenches	102, 103
Pit Saws	60
Plane Irons	46, 54
Planes	41 to 53
Planes, Norris's Metal London Made	52
Planes, Nurse's London Made Wood	41 to 45
Planes, Preston's Metal ...	53
Planes, Sargent's Metal ...	49 to 51
Planes, Stanley Co.'s Metal	46 to 48
Pliers, Bernard Patent ...	97
Pliers, Burner	100
Pliers, Cutting	99
Pliers, Electricians'	97, 99
Pliers, Eyelet	100
Pliers, Flat Nose	55
Pliers, Gas	100
Pliers, Glass	99
Pliers, Long Flat Nose ...	99
Pliers, Long Round Nose ...	55, 99
Pliers, Punch	97
Pliers, Revolving Punch ...	97
Pliers, Round Nose	99
Pliers, Round Nose Cutting	99
Pliers, Seal Press	100
Pliers, Side Cutting	99
Pliers, Various	55, 97 to 100
Plough Irons	54
Plough Planes	44, 48
Plugging Chisels	149
Plumb Bobs	145
Plumbers' Tools, Various	149 to 152
Plummer Blocks	146
Polishing Heads	124, 125
Polishing Lathes	124
Polishing Machine	124, 125
Portable Forges	135, 136
Prieker Pads	13
Primus Stoves	153
Protractors	85, 89
Pulleys	146
Punch Pliers	97
Punches	55, 91, 92
Punching Machines	139
Push Braces	24
Putty Knives	156
Q	
Quirk Routers	68
R	
Rabbit Plane and Fillister	47, 51, 53
Rabbit Plane, Side	44, 47
Rabbit Planes	44, 47, 49, 53
Radius Gauges	82
Rasps	25, 95, 96
Ratchet Brace Drills	118
Ratchet Braces	6, 7, 135

	PAGE
Ratchet Braces, Engineers'	135
Ratchet Screwdrivers	72, 73
Ratchet Tap Wrench	113
Reamers	115
Reamers, Burring	116
Reamers, Fluted	115
Reamers, Spiral	115
Reamers, Straight Fluted ...	115
Reamers, Taper	115
Rebate Planes	44, 47, 49, 53
Rebating Routers	68
Reciprocating Drills	24
Reed Planes	42
Reeding and Moulding Tool	69
Revolution Counters	76, 91
Revolving Punch Pliers ...	97
Rimers	9
Rip Saws	59, 61
Rivet Forges	135
Rivet Sets	157
Roller Gauges	26
Roller Gauges, Triple Beam	26
Rosewood Squares	70
Round Leather Belt	146
Routers, Adjustable Iron Quirk	68
Routers, Beading	45
Routers, Circular Quirk ...	68
Routers, Circular Rabbeting and Fillister	68
Routers, Circular Sash	68
Routers, Coachmakers	45
Routers, Fence	45
Routers, Grooving	45, 53
Routers, Iron	51, 53, 68, 69
Routers, Jigger	45
Routers, Lining or Stringing	69
Routers, Ovolo	68
Routers, Side	45
Rules	56, 57
Rules, Angle	93
Rules, Architects'	85
Rules, Bevelled Edge	57
Rules, Contraction	94
Rules, Engineers'	93, 94
Rules, Ivory	57
Rules, Pocket	94
Rules, Steel	93, 94
S	
Saddlers' Punches	55
Safety Couplings	146
Safety Glue Pots	28
Sailors' Palms	34
Samsonia All Steel Vices ...	104
Sash Cramps	19, 20
Sash Planes	42, 43
Sash Pocket Chisels	18
Sash Routers	58
Saw Benches	63
Saw Files	25
Saw Handles	33, 34
Saw Screws	34
Saw Sets	62
Saw Spindles	64
Saw Vices	73

	PAGE
Saws, Back	59, 61
Saws, Band	60
Saws, Bow	60
Saws, Circular	60, 64
Saws, Compass	59
Saws, Cross Cut	60, 61
Saws, Hand	59, 61
Saws, Nests of	59
Saws, Pad	59
Saws, Pit	60
Saws, Various	59 to 61
Scraper Blades	64
Scraper Planes	47, 51
Scraper Sharpeners	64
Scrapers	51, 64, 92
Scrapers, Adjustable Box ...	69
Scrapers, Engineers'	92
Scrapers, Joiners'	64
Scrapers, Plane	47
Scrapers, Tool Makers' ...	92
Screw Boxes and Taps	64
Screw Cutting Gauges	82, 83
Screw Cutting Lathes	142 to 144
Screw Pitch Gauges	82
Screw Tools	115
Screw Wrenches	101 to 103
Screwdrivers	71 to 73
Screwdrivers, Pocket	71
Screwplates	112
Scribers	85
Scribing Blocks	86
Scribing Gouges	29
Scroll Saws	63
Scrub Planes	47
Seal Press Pliers	100
Seals	100
Self-hardening Steel	145
Sensitive Drilling Machines	134
Set Collars	146
Sets, Brace Bits	10, 11
Sets, Carvers' Tools	14
Setting-in Sticks	149
Setting-out Knives	13
Shave Hooks	149
Shearing Machines	139
Ships' Scrapers	34
Shoulder Planes	52
Side Rabbit Planes	44, 47
Silver Steel	145
Sledge Hammers	137
Slide Rest Tools	121
Sling Hangers	146
Slips	39, 40
Slotting Bits	12
Smiths' Anvils	136
Smiths' Bellows	135
Smiths' Tools	137
Smooth Planes	41, 45, 46, 50, 52
Socket Gouges	29
Soldering Irons	151
Soldering Lamps	151, 152
Soldering Stoves	151
Spanners	101, 102
Spanners, Box	101

C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

	PAGE
Vices, Engineers' ...	104, 105
Vices, Leg ...	105
Vices, Metal-Workers	104, 105
Vices, Parallel ...	104, 105
Vices, Pin ...	73
Vices, Pipe ...	104
Vices, Tube ...	104
Vices, Vulcan Chain Pipe ...	104
Vulcan Chain Pipe Tongs...	103

Wad Punches	...	...	55
Wagon Builders' Bits	...	...	7
Wagon Builders' Braces	...	...	6
Wall Drills	...	...	149
Wall Scrapers	...	...	156
Walworth Stocks and Dies	...	...	108
Warding Files	...	...	95
Warrington Hammers	...	...	32
Washer Cutters	...	...	145
Washita Oilstones	...	...	39
Wheeler's Adzes	...	...	1
Wheeler's Bruzzes	...	...	30
Whitworth Pitch Gauges	...	...	82
Whitworth Screw Tools	...	...	115
Whitworth Size Spanners	...	...	103
Whitworth Stocks, Dies and Taps	...	...	111, 112
Whitworth Taps	...	...	114
Whitworth Thread Dies	...	...	110
Wickless Stoves, Primus	...	...	153
Wire Gauges	...	...	83, 84
Wire, Steel	...	...	145
Wiring Machines	...	...	150
Wood Bench Screws	...	...	4
Wood Boring Machines	...	...	2
Wood Pulleys	...	...	146
Wood-turners' Lathes	...	...	35
Woodworkers' Vices	...	...	74
Wrenches	...	...	101 to 103
Wrenches, Adjustable	...	...	101 to 103
Wrenches, Agricultural	...	...	102
Wrenches, Chain	...	...	103
Wrenches, Double Bar Coach	...	...	102
Wrenches, Engineers'	...	...	101 to 103
Wrenches, Footprint	...	...	102
Wrenches, Pipe	...	...	102, 103
Wrenches, Screw	...	...	101 to 103
Wrenches, Tap	...	...	113, 114

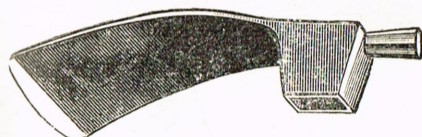
Yankee Ratchet Screwdrivers	72, 73
Yankee Reciprocating Drills	24
Yankee Spiral Ratchet Screwdrivers	72, 73

A Correction Sheet, giving revised prices up to the date of issue, is sent out with each copy of this Catalogue, and further sheets will be issued as necessitated by market changes.

C. NURSE & CO., LTD., Illustrated Catalogue of Wood-working Tools

Adzes.

No. 1. House Carpenters' Adzes.

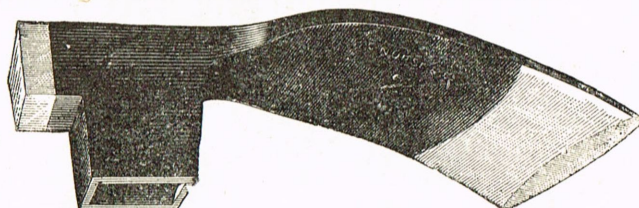


Nos.	1	2	3
	4/9	5/-	5/6

No. 2. Best Joiners' Adzes.

Nos.	1	2	3
	6/-	6/9	7/3

No. 3. Best Wheelers' Adzes.



Nos.	1	2	3
	8/-	8/6	9/-

No. 4. Best Shipwrights' Adzes.

Nos.	1	2	3
	5/3	5/9	6/3

Similar to pattern No. 1, but made with a longer blade.

Adze Handles.

No. 5. Best Quality Ash, 1/3 each.

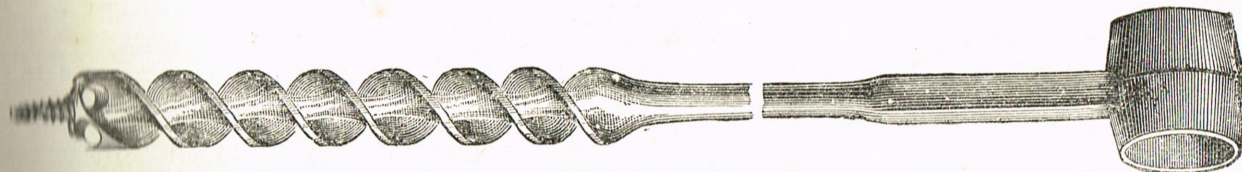
Augers.



No. 6.	Shell—Tanged	...	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in.
			1/3	1/3	1/5	1/8	1/11	2/2	2/5	2/9	3/-	3/3 each.



No. 7.	Bright Scotch Augers—Eyed	...	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
			2/9	3/-	3/6	4/-	4/6	5/-	5/8	6/-	6/9	8/-	9/6 each.



No. 10.	Solid wing—Eyed	...	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
			2/9	3/-	3/6	4/-	4/6	5/-	5/8	6/-	6/9	8/-	9/6 each.

For cutting the tapered holes in sides of Ladders.



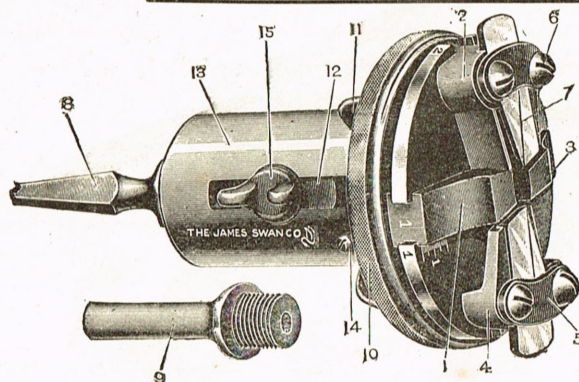
No. 11.	Taper Shell, or Ladder Augers—Tanged	...	...	...	...	...	...	...	...	...	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
											2/9	3/6	4/6 each.

Hollow Augers.

Complete with Gedge's Pattern Boring Bits.

	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in.
No. 12.	8/6	9/-	9/6	10/-	11/6	12/-	14/6	15/- each.

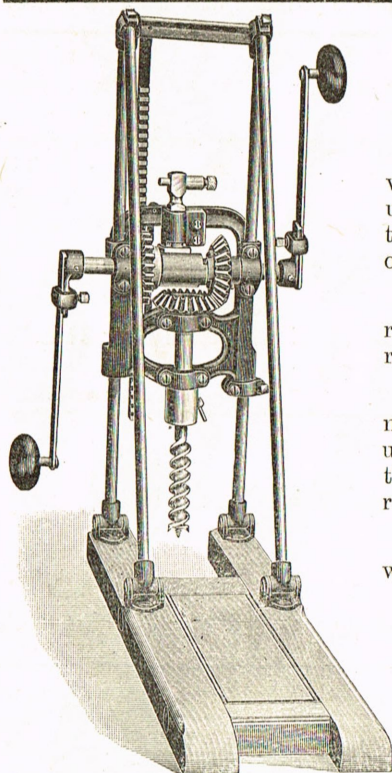
Extra Cutters for same, 3/- per pair.

Universal Hollow Augers.

No. 13. Improved Universal Hollow Augers, adjustable to round any size spoke from $\frac{3}{8}$ in. to $1\frac{1}{2}$ in. Fitted with Improved Adjustable Depth Gauge, 32/6

Extra Cutters, 3/- per pair.

These Augers will be sent with usual bit shank unless otherwise ordered. Machine shank can be supplied if desired for 2/6 extra.

**Miller's Falls Boring Machine.**

This machine has been fully perfected in all its parts, and is now sold with full warrant that it will do better work and give better satisfaction than any other kind in use. The gate is made of $\frac{1}{2}$ in. round steel rods; the braces are the same, and attach to the rods at the top by a set-screw. When this set-screw is loosened, the frame falls over so as to bore at any desired angle.

The depth of hole to be bored is fixed by a stop, as seen on the left-hand upright rod in the cut. Auger is removed from hole by pushing the latch and continuing revolution of cranks in same direction as when boring.

When the Auger is drawn from the hole, the frame hangs itself up until the machine is moved to the next hole; then it is dropped down by turning the crank back until the Auger strikes the wood, when it is thrown out of gear and proceeds to bore the next hole. As seen in the cut, the machine has adjustable cranks which fully regulate its speed and power.

We do not desire the reputation of making the cheapest goods in the market, but we mean to deserve the name of making the best.

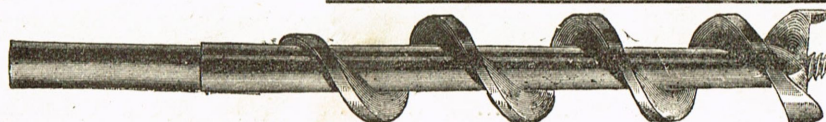
Height, 25 in.; Bores, 12 in.; Weight, Boxed, 45 lb.; Net, 28 lb.

Prices: £ s. d.

No. 15.	Machine, without Augers	...	...	...	...	4	0	0
„ 16.	Ditto, with set of 9 Augers to $1\frac{1}{2}$ in.	...	...	...	...	6	16	6

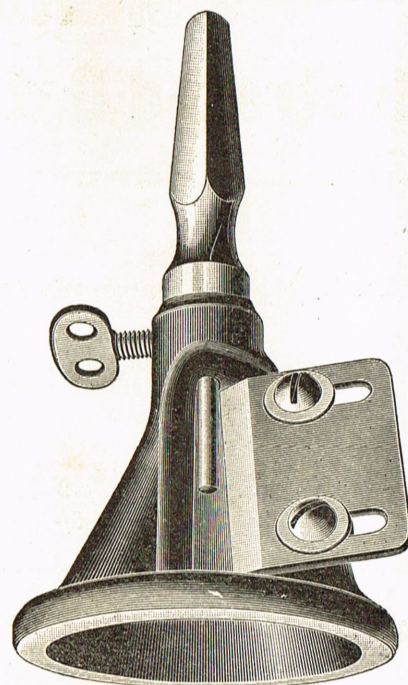
Boring Machine Augers.

$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
4/-	4/-	4/6	5/3	6/-	6/9	7/9	8/6	9/9	11/3	13/- each.

Irwin Pattern Machine Auger Bits.**No. 176.**

With Double Cutter. $\frac{1}{2}$ in. Round Shanks. Twist 6 in. long.

$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{7}{16}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2 in.	
3/-	3/-	3/3	3/6	4/-	4/3	4/9	5/-	5/6	6/-	6/6	6/9	7/3	7/6	8/-	8/6	9/-	9/3	9/9	10/-	10/6	11/6	12/6	14/-	15/- each.

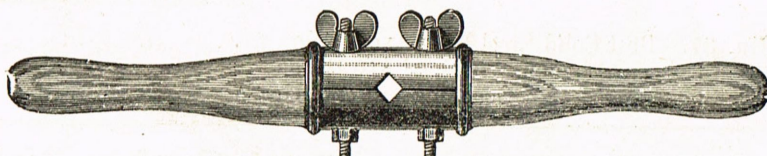
Spoke Trimmers.

No. 14. Improved Spoke Trimmers for rounding the ends of Spokes, etc., before using the Hollow Auger. Will cut Round Stock up to $1\frac{7}{8}$ in. or Square Stock up to $1\frac{5}{8}$ in.

Price ... 4/- each.

Patent Adjustable Auger Handle.

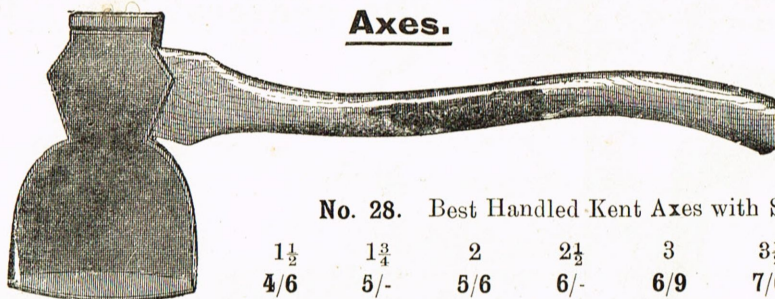
This Handle is fitted with a Steel Band 3 in. long by $\frac{3}{16}$ in. thick, which is cut lengthwise into two equal sections, which are operated by the two steel screws with thumb nuts, as seen in the illustration. Length, 17 in.



No. 22. Patent Adjustable Auger Handle, 4/- each.

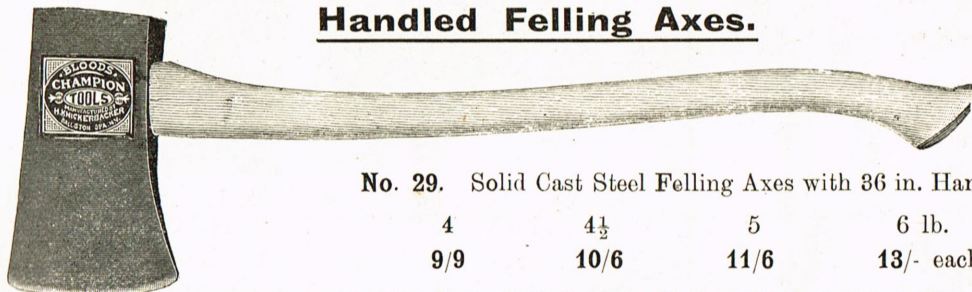
Woodcutters' Block Bills, Etc.

- No. 24. London Woodcutters' Block Bill with Socket Handle, 4/6.
 „ 25. Single Edged Bill Hooks, 4/- each.
 „ 26. Double Edged Bill Hooks, 4/6 each.
 „ 27. Steel Timber Splitting Wedges, $6 \times 1\frac{3}{4}$, 2/6; $7 \times 1\frac{3}{4}$, 3/-; 8×2 , 3/6 each.

Axes.

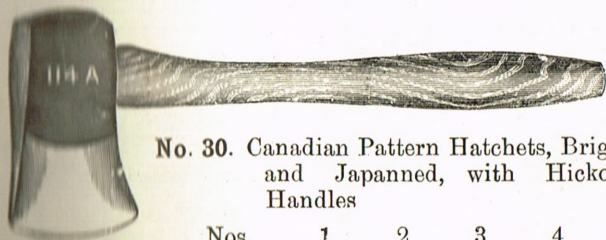
No. 28. Best Handled Kent Axes with Solid Steel Heads.

$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5 lb.
4/6	5/-	5/6	6/-	6/9	7/6	8/6	10/6 each.

Handled Felling Axes.

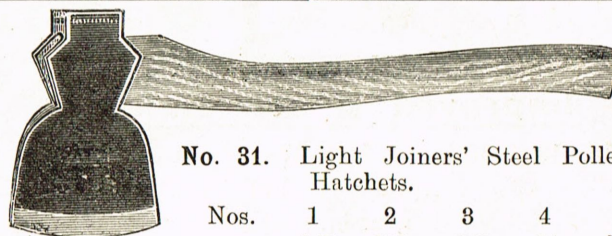
No. 29. Solid Cast Steel Felling Axes with 36 in. Handles.

4	$4\frac{1}{2}$	5	6 lb.
9/9	10/6	11/6	13/- each.



No. 30. Canadian Pattern Hatchets, Bright and Japanned, with Hickory Handles

Nos.	1	2	3	4
Weight	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$ lb.
	3/9	4/-	4/6	5/- each.



No. 31. Light Joiners' Steel Polled Hatchets.

Nos.	1	2	3	4
	3/3	3/6	3/9	4/- each.

No. 32. Light Joiners' Steel Polled Hatchets, Bright and Japanned.

Nos.	1	2	3	4
	3/9	4/-	4/3	4/6 each.

Best Quality American Axes.

Very handsomely finished and full polished.

No. 33. American Shingling Hatchets, 12 in. Handles.

Nos.	1	2	3
Width of Blade	$3\frac{1}{2}$	4	$4\frac{1}{2}$ in.
	5/6	5/9	6/- each.

No. 34. American Side Axes, 13 in. Handles.

Nos.	1	2	3	4
Width of Blade	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$ in.
	7/-	8/-	9/-	10/- each.

Axe Handles.

No. 35. Best Quality Felling Axe Handles, 36 in., 2/- each.

No. 36. Joiners' Axe Handles	16	18	20	22	24	26 in.
	-/6	-/7	-/8	-/9	-/10	1/- each.

Axe Heads.

					3	3½	4	4½	5 lb.
No. 37.	Best Solid Steel Kent Axe Heads	...	...	...	6/-	7/-	8/-	9/-	10/-
" 38.	" London Wheelers' Axe Heads	...	...	...	6/6	7/9	8/9	9/9	11/-
" 39.	" Coachmakers' Axe Heads	...	...	...	6/6	7/9	8/9	9/9	11/-

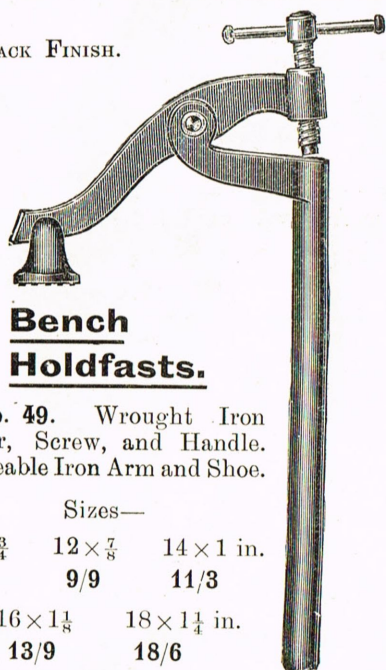
Best Quality Pick Axes.

No. 40. Best Solid Eye Warranted Pick Axes, 6 lb., 4/6; 7 lb., 5/3; 8 lb., 6/- each.
Special prices will be quoted for these in cwt. lots.

Pick Axe Handles.

No. 41. 36 in., 2/-; 39 in., 2/4 each.

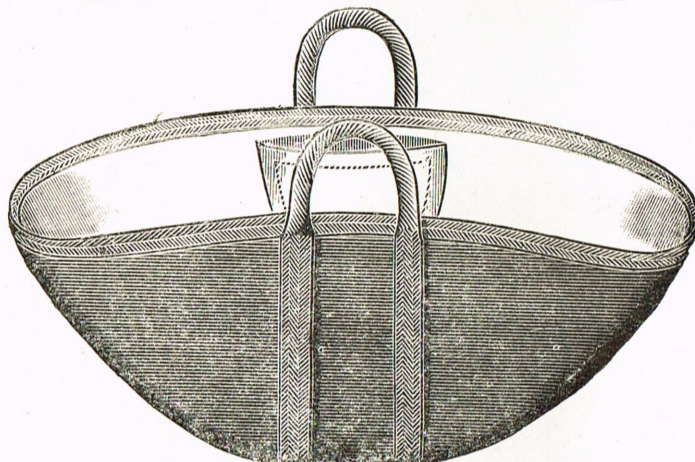
BLACK FINISH.

**Bench Holdfasts.**

No. 49. Wrought Iron Pillar, Screw, and Handle. Malleable Iron Arm and Shoe.

Sizes—

10 × ¾	12 × 7/8	14 × 1 in.
8/3	9/9	11/3
16 × 1½	18 × 1¼ in.	
13/9	18/6	

Carpenters' Tool Baskets.

No. 46. Superior Hardwear Tool Basket, made of Strong Brown Canvas, with White Sailcloth Lining and Cocoa Binding.

No. 46.	Nos.	2	3	4	5	6
	Size about	27	30	33	36	39 in.
	Price	4/9	5/-	5/6	6/6	7/6 each.

Improved Bench Holdfast.

No. 48. Made of best Wrought Iron throughout, except shoe. Full reach of arm, 16½ in. Pillar, 24 in. × 1½ in.

Price ... 23/- each.

Bench Screws.

Wrought Iron Bench Screws with Cast Heads and Wooden Handles.

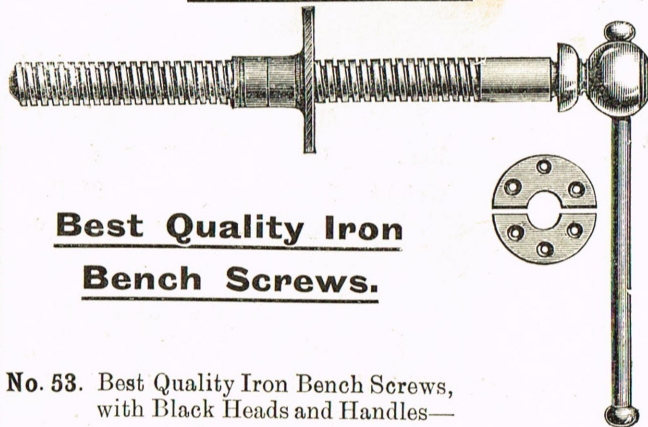
Length over all, about 16 in.

Length under collar, about 13 in.

No. 50. 1 in., 3/9; 1½ in., 4/3; 1¾ in., 4/9 each.

Best Quality Wood Bench Screws.

No. 51. 2 in., 4/3; 2½ in., 4/9 each.

Bench Screws.**Best Quality Iron Bench Screws.**

No. 53. Best Quality Iron Bench Screws, with Black Heads and Handles—

15 in. × 1 in., 8/-; 18 in. × 1½ in., 10/9;
20 in. × 1¼ in., 12/-; 21 in. × 1¾ in., 17/6 each.

No. 54. Best Quality All Bright Bench Screws—
15 in. × 1 in., 8/6; 18 in. × 1½ in., 11/3;
20 in. × 1¼ in., 12/6 each.

No. 55. Best Quality Small All Bright Bench Screws—
6 in. × 9/16 in., 4/9; 8 in. × 5/8 in., 5/-;
10 in. × ¾ in., 6/-; 12 in. × 7/8 in., 7/6 each.

Carvers' Screws.

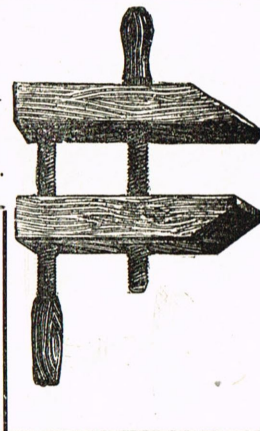
No. 56. Woodcarvers' Steel Screws, with Large Malleable Fly Nuts—

8 in. $\times \frac{1}{2}$ in., 4/9; 10 in. $\times \frac{5}{8}$ in., 5/9 each.

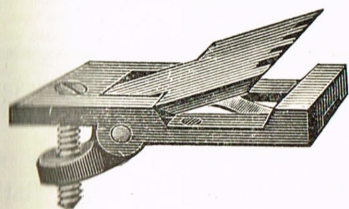
Hand Screws.

No. 57. Beechwood Hand Screws—

8	10	12	14	16 in.
2/6	2/9	3/-	3/9	4/6 each.

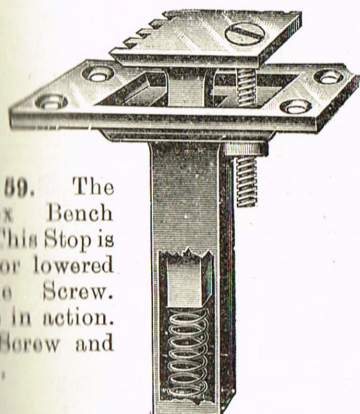


Bench Stops.



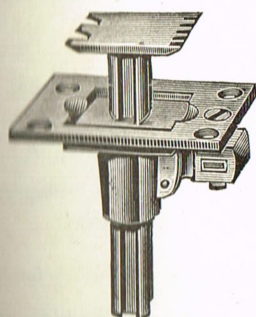
No. 58. Improved Iron Bench Stop. Malleable Iron Body, Steel Screw.

Price, 3/-



No. 59. The Simplex Bench Stop. This Stop is raised or lowered by the Screw. Simple in action. Steel Screw and Spring.

Price, 3/3



Size No. 1 has one toothed edge and three plain edges. No. 2 has two toothed edges and two plain edges. The Stops are reversible, and the plain edges will not mark finished work.

No. 60. Morrill's Original Bench Stop.

No. 1. Size of Top Plate, 3 $\frac{3}{8}$ in. $\times$ 9 in., 8/-

No. 2. Size of Top Plate, 3 $\frac{3}{8}$ in. $\times$ 9 in., 6/-

No. 61. Morrill's Pattern Ditto.

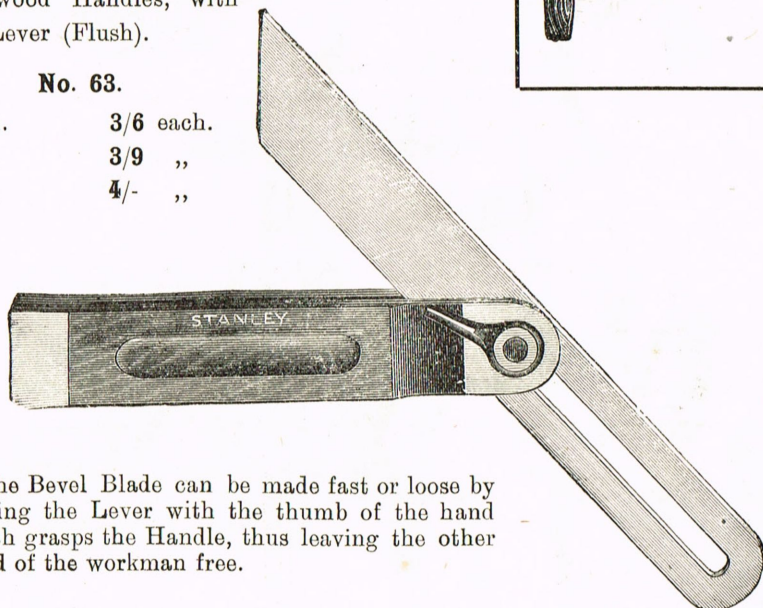
No. 1. Price, 3/6.

Stanley Bevels.

Rosewood Handles, with Brass Lever (Flush).

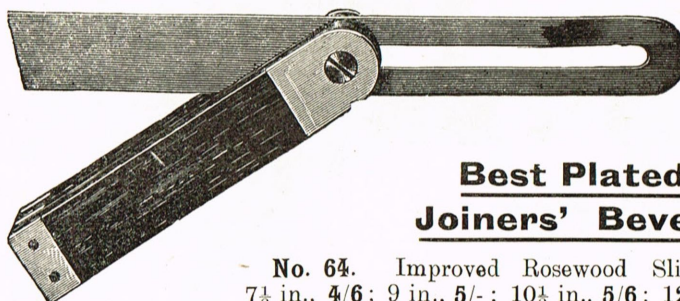
No. 63.

8 in.	3/6 each.
10 "	3/9 "
12 "	4/- "



The Bevel Blade can be made fast or loose by moving the Lever with the thumb of the hand which grasps the Handle, thus leaving the other hand of the workman free.

Sliding T Bevels.



Best Plated Joiners' Bevels.

No. 64. Improved Rosewood Sliding Bevels, 7 $\frac{1}{2}$ in., 4/6; 9 in., 5/-; 10 $\frac{1}{2}$ in., 5/6; 12 in., 6/3.

No. 65. Ditto, Ebony, 7 $\frac{1}{2}$ in., 4/9; 9 in., 5/3; 10 $\frac{1}{2}$ in., 6/-; 12 in., 6/6.

No. 66. Ditto, Brass Framed, Inlaid with Ebony, 7 $\frac{1}{2}$ in., 7/6; 9 in., 8/-; 10 $\frac{1}{2}$ in., 8/9; 12 in., 9/6 each.

Boatbuilders' Bevels.

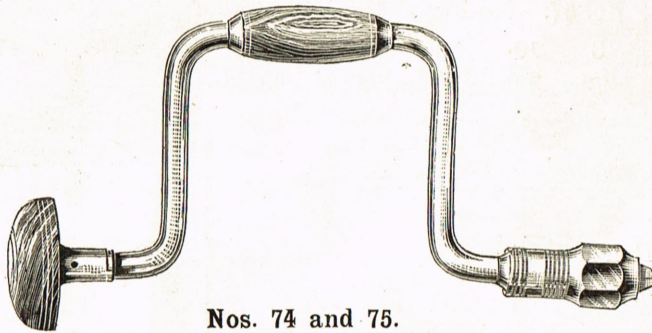
No. 67. Boatbuilders' Rosewood Bevels, with Two Brass Tongues, 12 in., 2/3

„ 68. Ditto, Boxwood, 12 in., 2/3. Rule marked.

Miller's Falls Improved Angular Bit Stocks.

No. 72. This is an improvement on the original pattern, of which it takes the place. The crocodile pattern jaws are now supplied in place of the plain jaws, and the angular adjustment is simplified and strengthened.

Price, 13/- each.

BRACES.

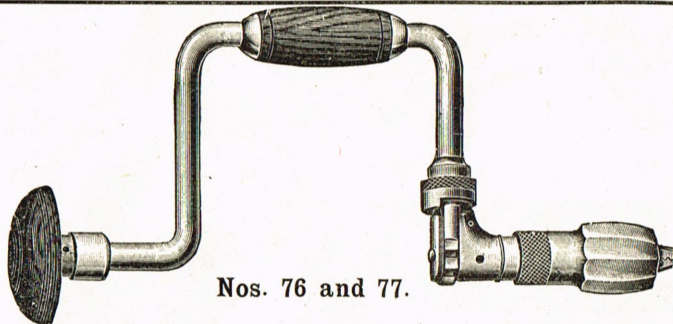
Nos. 74 and 75.

No. 74. Improved English-made Brace, with Octagon Mouthpiece, Spring Jaws, and Bright Steel Bar.

7	8	10	12 in. sweep.
4/6	5/-	6/6	8/- each.

No. 75. Ditto, Nickel Plated.

5	8	10	12 in. sweep.
5/9	6/9	7/9	9/9 each.



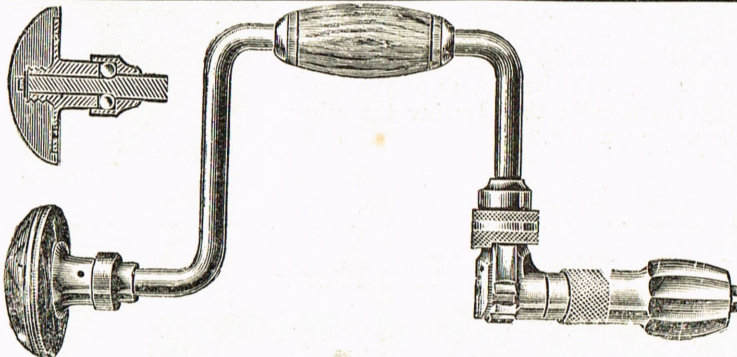
Nos. 76 and 77.

No. 76. Improved English - made Ratchet Brace, with Octagon Mouthpiece, Spring Jaws, and Bright Steel Bar.

8	10	12 in. sweep.
10/-	12/-	14/- each.

No. 77. Ditto, Nickel Plated.

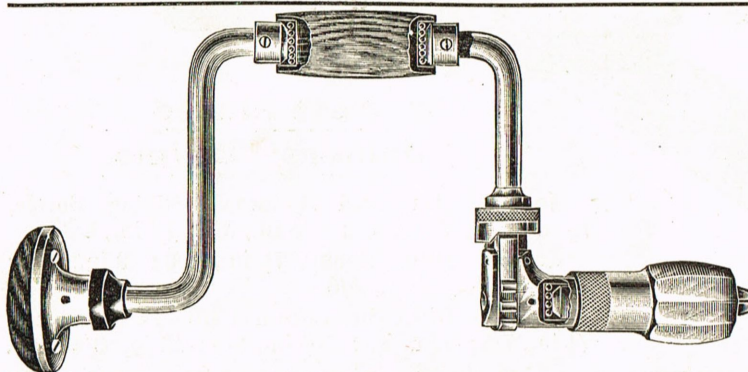
5	8	10	12 in. sweep.
14/-	14/-	15/-	17/6 each.



No. 78. Best Quality English-made Ratchet Brace, Rosewood Head and Handle, Ball Bearing Head, Steel Sweep and Jaws Heavily Nickel Plated.

8	10	12 in. sweep.
16/6	17/6	19/6 each.

Improved Ratchet Braces with Ball Bearings throughout.



No. 79. Lignum - vitæ Head, Rosewood Handle, Steel Spindle, Crocodile Jaws, Metal-clad Head, Heavily Nickel Plated. The Head and Nose run on Steel Ball Bearings, and the Handle has Ball Bearings at each end secured by Steel Cones, as shown in illustration.

8	10	12 in. sweep.
22/6	24/-	26/- each.

Wagon Builders' Braces.

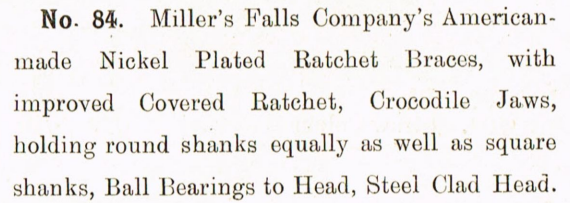
Wagon Builders' Braces, with Lignum Heads and Ball Bearings. *Now made with Chuck.*

		14	16 in. sweep.
No. 80.	Bright ...	18/-	20/- each.
„	81. Nickel Plated	21/6	23/6 „

Extension Bit Holders.

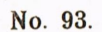
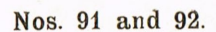
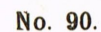
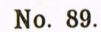
No. 82. These Extension Bit Holders are made in two lengths, and are very useful for boring where an ordinary Brace Sweep could not be used.

12 in., 4/-; 18 in., 5/-



The Master Brace.

Brace Bits.



Set of 6— $\frac{3}{8}$ to 1 in.—19/6

Brace Bits—continued.

Shell Bits.

No. 99.	Black	...	...	$-\frac{1}{8}$	$-\frac{5}{16}$	$-\frac{3}{16}$	$-\frac{7}{32}$	$-\frac{1}{4}$	$-\frac{9}{32}$	$-\frac{5}{16}$	$-\frac{11}{32}$	$-\frac{3}{8}$	$-\frac{7}{16}$	$-\frac{1}{2}$	$-\frac{9}{16}$	$-\frac{5}{8}$ in.
„ 100.	Straw Colour	...	...	$-\frac{1}{10}$	$-\frac{1}{10}$	$-\frac{1}{10}$	$-\frac{1}{10}$	$-\frac{1}{10}$	$-\frac{1}{11}$	$-\frac{1}{11}$	$1/-$	$1/-$	$1/3$	$1/5$	$1/9$	$2/-$



Centre Bits.

No. 103.	Black	...	$-\frac{1}{8}$	$-\frac{5}{16}$	$-\frac{3}{16}$	$-\frac{1}{2}$	$-\frac{5}{8}$	$-\frac{3}{4}$	$-\frac{7}{8}$	$-\frac{1}{10}$	$1/8$	$1/4$	$1/2$	$1/3$	$2/4$	$2/3$ in.
„ 104.	Straw Colour	...	$-\frac{1}{10}$	$-\frac{1}{10}$	$-\frac{1}{10}$	$-\frac{1}{11}$	$-\frac{1}{11}$	$1/-$	$1/1$	$1/2$	$1/4$	$1/6$	$1/7$	$1/9$	$2/9$	$4/3$



Bright Half-Twist or Diamond Bits.

No. 105.	...	$-\frac{1}{16}$	$-\frac{3}{32}$	$-\frac{1}{8}$	$-\frac{5}{32}$	$-\frac{3}{16}$	$-\frac{7}{32}$	$-\frac{1}{4}$	$-\frac{9}{32}$	$-\frac{5}{16}$	$-\frac{11}{32}$	$-\frac{3}{8}$	$-\frac{13}{32}$	$-\frac{7}{16}$	$1/-$
----------	-----	-----------------	-----------------	----------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	------------------	----------------	------------------	-----------------	-------



Bit Stock Drills for Hardwood.

No. 106.	$-\frac{1}{11}$	$1/1$	$1/2$	$1/6$	$1/9$	$2/-$	$2/-$	$2/3$	$2/3$	$2/6$	$2/6$	$2/9$	$2/9$	$3/-$	$3/3$	$4/3$ in. each.
----------	-----------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-----------------

Bit Stock Drills for Metal or Wood.

No. 107.

Diameter, In.	Price, Each.	Whole Length, In.	Diameter, In.	Price, Each.	Whole Length, In.	Diameter, In.	Price, Each.	Whole Length, In.
$\frac{1}{16}$	$-\frac{6}{12}$	$3\frac{5}{16}$	$\frac{1}{4}$	$1/1$	$5\frac{3}{16}$	$\frac{7}{16}$	$2/4$	$6\frac{1}{4}$
$\frac{3}{32}$	$-\frac{7}{12}$	$3\frac{5}{8}$	$\frac{9}{32}$	$1/4$	$5\frac{3}{8}$	$\frac{15}{32}$	$2/6$	$6\frac{5}{8}$
$\frac{1}{8}$	$-\frac{8}{12}$	$4\frac{1}{16}$	$\frac{11}{32}$	$1/6$	$5\frac{1}{2}$	$\frac{1}{2}$	$2/10$	$6\frac{3}{4}$
$\frac{5}{32}$	$-\frac{9}{12}$	$4\frac{3}{8}$	$\frac{13}{32}$	$1/9$	$5\frac{7}{8}$	$\frac{9}{16}$	$3/6$	$7\frac{1}{2}$
$\frac{3}{16}$	$-\frac{11}{12}$	$4\frac{3}{4}$	$\frac{1}{2}$	$1/11$	$5\frac{7}{8}$	$\frac{5}{8}$	$4/-$	$7\frac{1}{2}$
$\frac{7}{32}$	$1/-$	$5\frac{1}{4}$	$\frac{13}{32}$	$2/-$	$5\frac{7}{8}$	$\frac{3}{4}$	$5/3$	$7\frac{1}{2}$

Bit Stock Drills for Metal.

No. 108. All sizes from $\frac{1}{8}$ in. to $\frac{7}{16}$ in., $-\frac{6}{12}$ each; $\frac{1}{2}$ in., $-\frac{8}{12}$; $\frac{9}{16}$ in., $-\frac{10}{12}$; $\frac{5}{8}$ in., $1/-$; $\frac{3}{4}$ in., $1/3$; $\frac{7}{8}$ in., $1/6$; 1 in., $1/9$ each.



No. 97. Jennings' Pattern Dowel Bits.

$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$ in.
$2/-$	$2/-$	$2/-$	$2/-$	$2/-$	$2/3$	$2/3$ each.

No. 98. Improved Solid Steel Dowel Rounders, $1/9$ each.**Plain Turnscrew Bits.**No. 127. Black, $-\frac{8}{12}$; Straw Colour, $-\frac{11}{12}$ ea.**Forked Turnscrew Bits.**No. 128. Black, $-\frac{9}{12}$; Straw Colour, $1/-$ ea.**Best Bright Turnscrew Bits.**No. 129. Best Quality Hand Forged: 4 in., $1/4$; 6 in., $1/6$; 8 in., $1/8$ each.

Countersinks.



Snail Horn for Wood.

Rose Head for Brass.

No. 113. Black $\frac{1}{2}$ 9 $\frac{5}{8}$ 1/- $\frac{3}{4}$ 1/6 $\frac{7}{8}$ in. ea.
 „ 114. Straw
 Colour 1/- 1/3 1/9 2/3 „



No. 117. Broughton's Patent Countersink, which can be attached to any ordinary Shell Bit, when it serves both as a depth gauge and also as a countersink. Price, to $\frac{1}{2}$ in., 2/-; $\frac{3}{8}$ in., 3/- each.



No. 118. Ditto ditto with Fence, Price, to $\frac{1}{4}$ in., 4/- ; $\frac{3}{8}$ in., 6/- each.



No. 119.

No. 120.

No. 121. Starrett's.

No. 119. Wheeler's Patent Countersink with Adjustable Depth Gauge, 2/- each.

„ 120. Ditto ditto without Depth Gauge, 1/6 „

„ 121. Starrett's Improved Double Lip Countersink, $\frac{5}{8}$ in., 2/- ; $\frac{7}{8}$ in., 2/3 „

Boxwood Handled Taper Bits.

No. 122. Hollow or Taper Bits: $\frac{3}{8}$ in., 1/3; $\frac{1}{2}$ in., 1/3;
 $\frac{5}{8}$ in., 1/3; $\frac{3}{4}$ in., 1/6; $\frac{7}{8}$ in., 1/9; 1 in., 2/3 each.

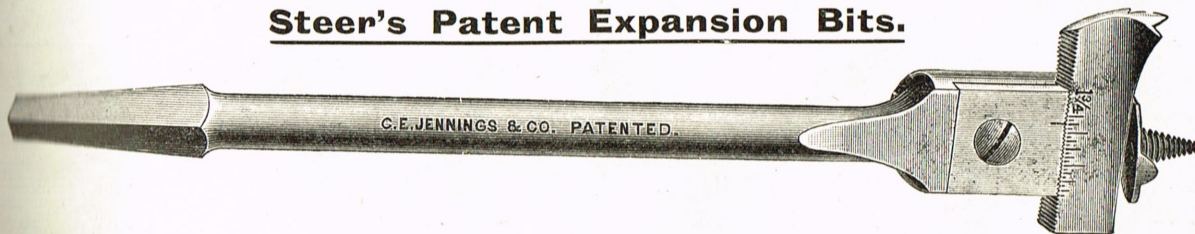
No. 123. Boxwood-handled Taper Bits,
 $\frac{3}{4}$ in., 1/9 each.



No. 125. Boxwood-handled Bright Square Rimers,
1/6 each.

No. 126. Half-round Rimers. Black, -/9;
Straw Colour, -/11

Steer's Patent Expansion Bits.

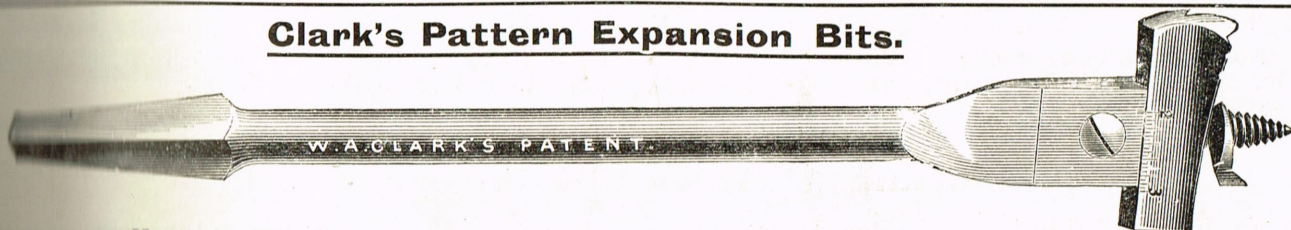


No. 130. The cutter is most firmly held, and the screw adjustment is so made that whilst the Bit is most easily set to any desired size, when once set any creeping or expansion in working is rendered impossible. In this most important respect we consider it is superior to any other Expansion Bit on the market.

No. 1.	Cutting from $\frac{5}{8}$ in. to $1\frac{3}{4}$ in.	...	12/6	No. 2.	Cutting from $\frac{7}{8}$ in. to 3 in.	...	16/-
--------	--	-----	------	--------	---	-----	------

Extra Cutters for No. 1 Bit, $\frac{5}{8}$ in. to $1\frac{1}{8}$ in., **1/6**; $1\frac{1}{8}$ in. to $1\frac{3}{4}$ in., **2/-**
Ditto for No. 2 Bit, $\frac{7}{8}$ in. to $1\frac{3}{4}$ in., **2/6**; $1\frac{3}{4}$ in. to 3 in., **3/-**; 3 in. to 4 in., **6/-** each.

Clark's Pattern Expansion Bits.



No. 131. This Expansion Bit is the oldest and best-known Expansion Bit on the market.

No. 1.	Clark's Expansion Bit, cutting from $\frac{1}{2}$ in. to $1\frac{1}{2}$ in.	...	6/3
--------	---	-----	-----

" 2. " " " " " 7 " " 3 " ... 9/-

Extra Cutters for No. 1 Bit:—No. 1, Cutting from $\frac{1}{2}$ in. to $\frac{7}{8}$ in., 1/-; No. 2, ditto, $\frac{7}{8}$ in. to $1\frac{1}{2}$ in., 1/6

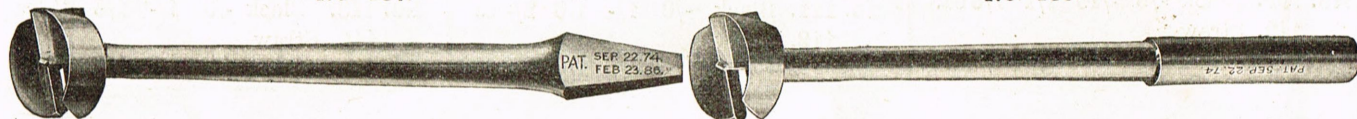
Extra Cutters for No. 2 Bit:—No. 1, Cutting from $\frac{3}{8}$ in. to $\frac{5}{8}$ in., 1/-; No. 2, ditto, $\frac{5}{8}$ in. to $1\frac{1}{2}$ in., 1/6
No. 3, Cutting from $\frac{7}{8}$ in. to $1\frac{1}{4}$ in., 2/-; No. 4, ditto, $1\frac{1}{4}$ in. to 3 in., 2/6; No. 5, ditto,
3 in. to 4 in. 3/6; No. 6, ditto, 4 in. to 5 in., 4/6

Brace Bits—continued.**The "Forstner" Auger Bits.**

FOR SMOOTH, ROUND, OVAL, OR SQUARE BORING; SCROLL AND TWIST WORK.

No. 137.

No. 138.



BRACE BIT.

MACHINE BIT.

The "Forstner" Labour-saving Auger Bit, unlike other Bits, is guided by its circular rim instead of its centre, consequently it will bore any size of a circle, and can be guided in any direction regardless of grain or knots, leaving a true polished surface.

	Size	...	...	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$ in.
No. 137.	Brace Bit	...	...	4/4	4/4	4/10	4/10	5/-	5/6	5/6	5/9	6/3	6/9	6/9	8/2
„ 138.	Machine Bit	...	...	5/3	5/3	5/9	5/9	6/-	6/6	6/6	6/9	7/3	7/8	7/8	9/3
	Size		1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{7}{16}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2 in.
„ 137.	Brace Bit	...	8/2	8/8	8/8	9/6	10/6	10/6	11/3	12/9	14/6	15/-	16/3	17/3	18/6
„ 138.	Machine Bit	...	9/3	9/8	9/8	10/6	11/6	11/6	12/3	13/9	15/6	16/-	17/3	18/3	19/6

PRICES OF SETS.

														£	s.	d.
No. 139.	6 Brace Bits	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.	...	...	...	...	...	...	...	...	...	...	...	1	13	6
„ 140.	9 „ „	$\frac{3}{8}$ to $1\frac{3}{8}$ in. by 8ths	...	...	...	...	...	...	...	...	...	...	...	3	5	6
„ 141.	11 „ „	$\frac{3}{8}$ „ 1 „ „ 16ths	...	...	...	...	...	...	...	...	...	...	...	3	4	6
„ 142.	17 „ „	$\frac{1}{4}$ „ $1\frac{3}{8}$ „ „ 16ths	...	...	...	...	...	...	...	...	...	...	...	5	12	0
„ 143.	6 Machine Bits	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.	...	...	...	...	...	...	...	...	...	...	...	2	0	0
„ 144.	9 „ „	$\frac{3}{8}$ to $1\frac{3}{8}$ in. by 8ths	...	...	...	...	...	...	...	...	...	...	...	3	14	6
„ 145.	11 „ „	$\frac{3}{8}$ „ 1 „ „ 16ths	...	...	...	...	...	...	...	...	...	...	...	3	16	6
„ 146.	17 „ „	$\frac{1}{4}$ „ $1\frac{3}{8}$ „ „ 16ths	...	...	...	...	...	...	...	...	...	...	...	6	10	0

Sets of Brace Bits.**Sets of 36 Best Sheffield Brace Bits.**

No. 147.	Sets of 36 Best Cast Steel Brace Bits	...	...	...	...	...	...	...	...	Black	...	27/6
„ 148.	Ditto ditto ditto	...	...	...	...	...	...	...	...	Straw Colour	...	32/6

C. E. Jennings' Superior Quality Auger Bit Sets.

Packed in the Model Bit Boxes.

This Box is designed to hold a full Set of 13 Auger Bits, $32\frac{1}{2}$ Quarters. It is made of hard wood and carefully finished.

No. 149. Model Box, containing 13 Jennings' Bits, $\frac{1}{4}$ in. to 1 in., 55/-

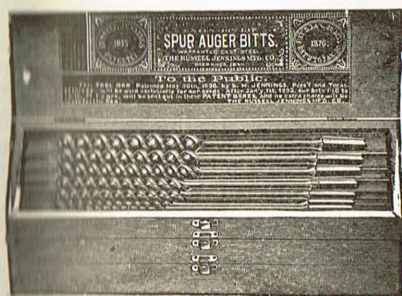
No. 150. Ditto, containing one Gimlet Bit, each $\frac{1}{16}$ in. and $\frac{1}{8}$ in.; 11 Jennings' Bits, one each size from $\frac{3}{16}$ in. to $\frac{13}{16}$ in., and 1 Expansion Bit, cutting from $\frac{7}{8}$ in. up to 3 in., together with file for sharpening Bits, 72/-

C. E. Jennings' Auger Bits in Canvas Roll.

No. 151. Packed in improved pattern Flexible Canvas Roll. Set of 13 Bits, from $\frac{1}{4}$ in. to 1 in., complete with Canvas Roll, 49/6

No. 152. Canvas Bit Rolls, without Bits, 5/- each.

Bit by bit our Trade in High Class Tools continues to increase.



Russell Jennings' Original Auger Bits in Patent Box.

No. 153. Complete Set of 13 Auger Bits, $\frac{1}{4}$ in. to 1 in., fitted in Patent Hardwood Box, 45/- complete.

The Illustration shows the Box with lid open, and the upper section containing $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$ in.; the second section contains $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{13}{16}$ in.; the lower section contains $\frac{7}{8}$, $\frac{15}{16}$, 1 in.

Irwin Pattern Auger Bits in Sets.

SUPERIOR ADVANTAGES.

Owing to the fact that these Bits have but one crimp it is impossible for them to choke, as the clearance is double that of the old-fashioned kind with two crimps. No pressure is required in boring, and they will bore either in end or side of wood. They are the only Bits made having a solid centre, and are therefore much stronger than other styles.

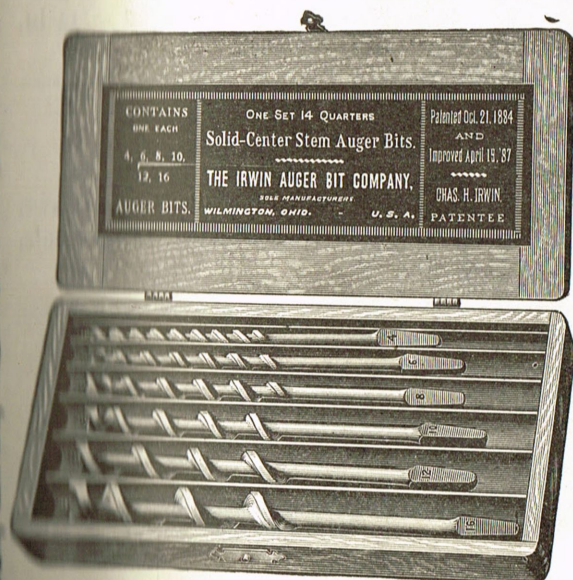
These Bits have been made to bore much more rapidly than those of other patterns.

No. 154. Set of 9 Irwin Pattern Auger Bits in Improved Wood Box, sizes, $\frac{1}{4}$ in. to 1 in., with 1 Turnscrew Bit.
10 Bits in all. Price, 18/6 per set.

„ **155.** Set of 13 Irwin Pattern Auger Bits in Improved Wood Box, sizes, $\frac{1}{4}$ in. to 1 in. by 16ths.
Price, 30/- per set.



New Sets of Irwin Auger Bits.

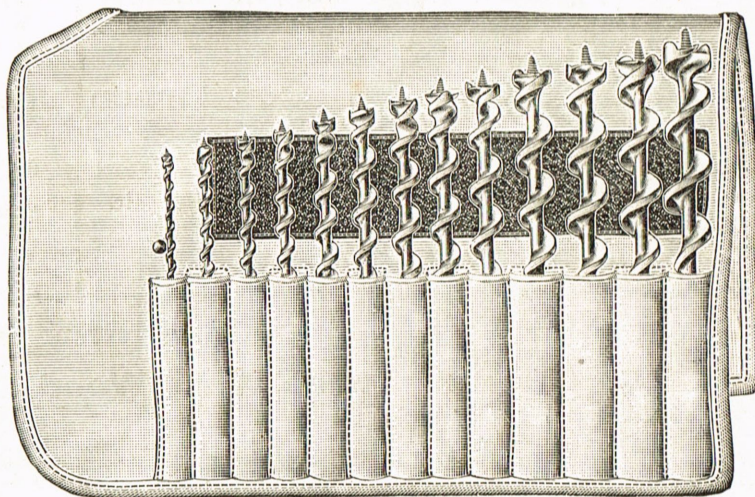


No. 177.

Box of 6 Irwin Bits in Neat Wood Case, containing—

1 Bit, each $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, and 1 inch.

Price, 14/-

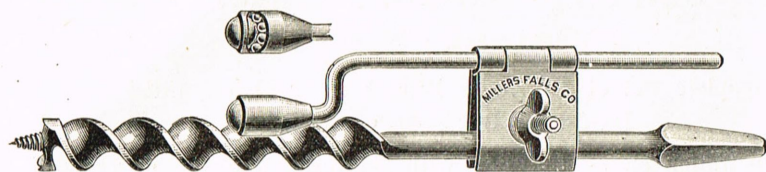


No. 178.

Set of 13 Irwin Bits in Improved Canvas Roll, containing—

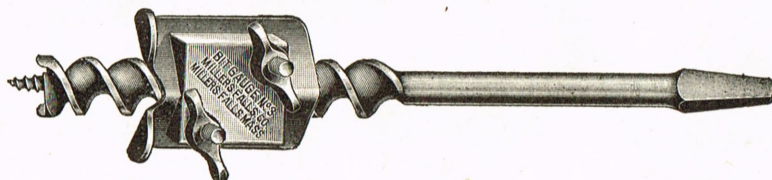
1 Irwin Auger Bit, each $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, and 1 in.

Price, 30/- complete.

Anti-Friction Bit Gauge.

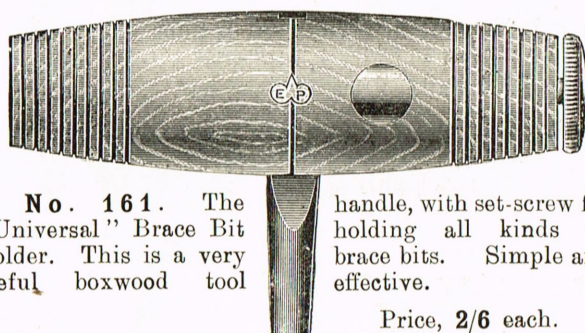
thing is highly polished and nickel plated, making a very beautiful and useful tool.

Price, 1/10 each.



No. 158. Nickel Plated Bit Gauge. Has a smooth stop on each side so made as not to mar material.
Price, 1/6 each.

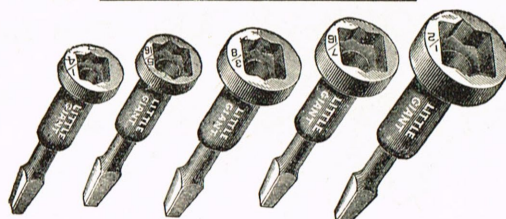
Can be clamped at any point on Auger Bit.



No. 161. The "Universal" Brace Bit Holder. This is a very useful boxwood tool

handle, with set-screw for holding all kinds of brace bits. Simple and effective.

Price, 2/6 each.

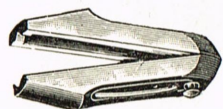
Brace Wrench.

No. 162. For Square or Hexagon Nuts. Mottled Finish.

Diameter across Flats :

Nos.	1	2	3	4	5	6	7	8	9
	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$1\frac{1}{8}$ in.

All sizes, 1/9 each.

Brace Jaws.

No. 169.

No. 169. Bright Steel, 1/4 pair.



No. 170.

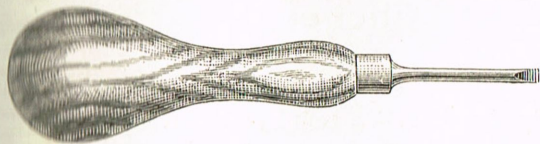
No. 170. Crocodile Pattern Jaws, Nickel Plated, 2/6 per pair.

MACHINE BITS.**Three-Wing Wood Slotting Bits.**

No. 175. Prices of Three-Wing Slotting Bits with $\frac{1}{2}$ in. Shanks.

Diameter of Bit, in.	Full Length, in.	Price, Each.	Diameter of Bit, in.	Full Length, in.	Price, Each.	Diameter of Bit, in.	Full Length, in.	Price, Each.
$\frac{1}{8}$	3	3/-	$\frac{11}{32}$	$4\frac{3}{4}$	4/6	$\frac{5}{8}$	$6\frac{1}{2}$	7/-
$\frac{5}{16}$	$3\frac{1}{4}$	3/-	$\frac{3}{8}$	5	4/6	$\frac{11}{16}$	$6\frac{3}{4}$	7/6
$\frac{3}{8}$	$3\frac{1}{2}$	3/6	$\frac{13}{32}$	$5\frac{1}{4}$	4/9	$\frac{3}{4}$	7	8/-
$\frac{7}{16}$	$3\frac{3}{4}$	3/6	$\frac{7}{16}$	$5\frac{1}{2}$	5/3	$\frac{13}{16}$	$7\frac{1}{4}$	8/6
$\frac{1}{2}$	4	4/-	$\frac{15}{32}$	$5\frac{3}{4}$	5/3	$\frac{7}{8}$	$7\frac{1}{2}$	9/-
$\frac{9}{16}$	$4\frac{1}{4}$	4/-	$\frac{1}{2}$	6	5/9	$\frac{15}{16}$	$7\frac{3}{4}$	10/6
$\frac{5}{8}$	$4\frac{1}{2}$	4/6	$\frac{9}{16}$	$6\frac{1}{4}$	6/3	1	8	11/6

BRADAWLS, MARKING AWLS, AND TOOL RACKS.



No. 179. Ash-handled Bradawls, 5/- doz. Large sizes, -/6 each.

„ 180. Boxwood-handled Bradawls, 7/- doz. Large sizes, -/8 each.

Handled Marking Awls.



No. 189. Unshouldered, -/4 and -/6 each.

„ 190. Shouldered, -/8 and -/10 each.

London Pattern Striking or Setting out Knives.



No. 185. Small size, -/3 each.

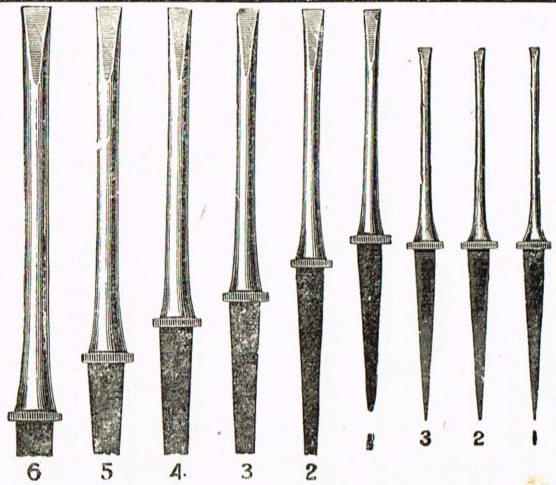
„ 186. Sheffield-made, -/10 each.

„ 187. London-made, 1/- each.

Handled Setting-out Knives.



No. 191. As illustration, 1/- each.



No. 192. Best Bradawl Blades, 2/3 doz. assorted.

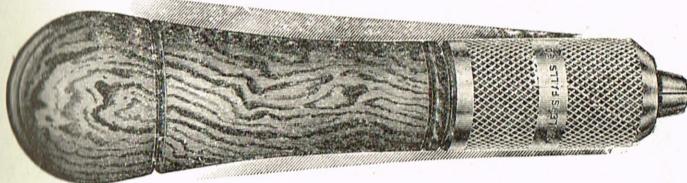
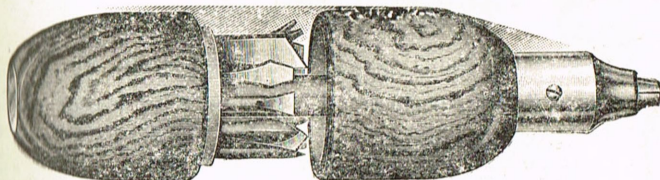
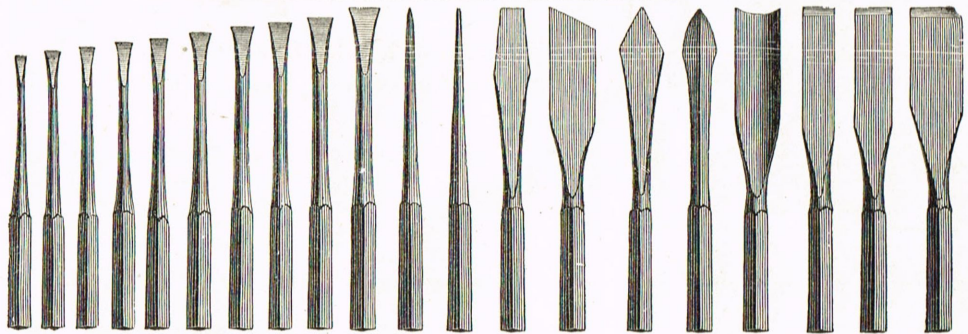
„ 193. Bradawl Blades in separate sizes.

1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3 in. blades.
1/9	1/9	1/9	2/-	2/3	2/6	3/-	4/-	5/6 per doz.

No. 194. Long Thin Pattern-makers' Awl Blades, 2 1/2 in. to 3 in., 4/6 doz. assorted.

Miller's Falls Co.'s Tool Holders.

Tools as supplied with No. 1.



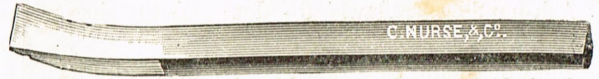
These Tool-Holders are the very best of their class. Handles are of Polished Cocobolo Wood, the Shell and Jaws heavily Nickel Plated. Tools are of the very best tool steel. Carefully tempered and finished and honed to a fine cutting edge.

No. 198.	No. 6.	Improved Tool Holder, 4 3/4 in. long with 12 Tools	...	...	...	...	...	...	7/- each.
„ 199.	„ 1.	„ „ 6 „ „ „ 20 „	...	...	...	...	...	...	7/6 „
„ 200.	„ 4.	„ „ 6 1/4 „ „ „ 10 „	...	...	...	...	...	...	9/- „
„ 201.	„ 5.	„ „ 7 1/2 „ „ „ 10 „	...	...	...	...	...	...	12/6 „

Brad, Nail, and Hand Rail Punches.

- No. 206. Best London-made Brad Punches, round or square,— $3\frac{1}{2}$ d. each.
 „ 207. Ditto, ditto, Flooring Punches, round or square,—6d. each.

No. 208. Hand Rail Punches,—10d. each.

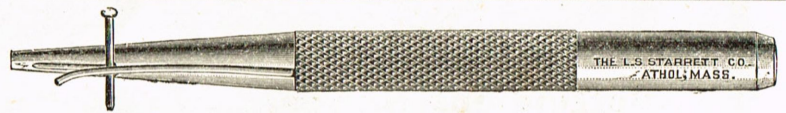


No. 208.

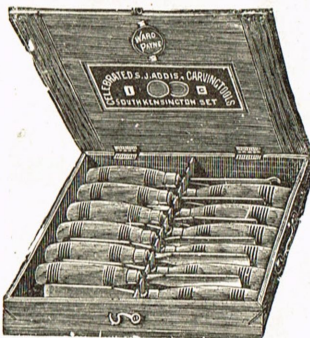
**Nail Sets.**

No. 209. Made of a fine grade of steel, both ends hardened, centres nicely knurled, tips concaved, tops oval, and the size just right.

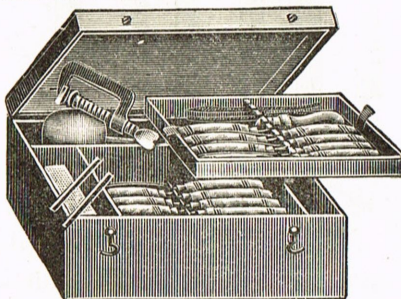
Length of each size, 4 in. Diameter at tip:
 A, $\frac{5}{16}$ in.; B, $\frac{3}{8}$ in.; C, $\frac{9}{16}$ in.; D, $\frac{5}{8}$ in.
 Price, 6d. each.

**Improved Nail Holders and Sets.**

No. 210. This cut shows our finished Nail Holder and Set combined. The nail may be instantly placed under the spring in the lower end of the holder, and there retained by the pressure of same, ready to be driven home. After one blow is struck, the holder is withdrawn and the nail driven in and sunk with the punch—a great improvement over the difficult way of trying to hold a small nail between the thumb and finger at the risk of pounding them. The holder also admits of the nail being held to drive in places where the hand cannot go. Price, $1\frac{1}{6}$ each.

**South Kensington Sets of S. J. Addis'****Carving Tools.**

- | | | | | | |
|----------|--|-----|-----|-----|------|
| No. 213. | Set of 7 Beech Handled in Cardboard Box | ... | ... | ... | 13/- |
| „ 215. | Set of 12 Beech Handled in Cardboard Box | ... | ... | ... | 23/- |
| „ 217. | Set of 18 Beech Handled in Cardboard Box | ... | ... | ... | 34/- |
- Polished Pine Cases temporarily discontinued.

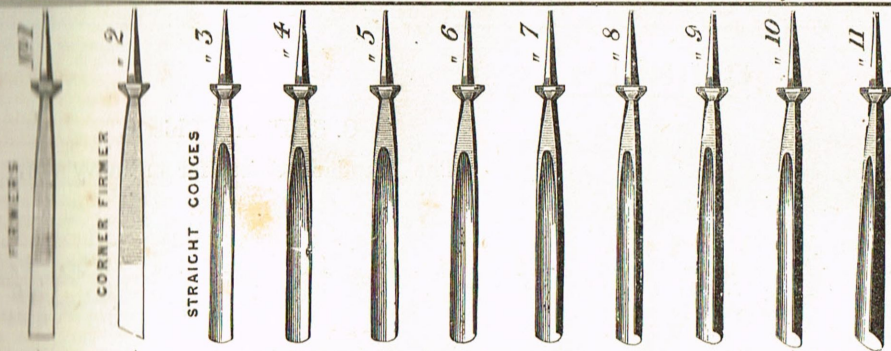
**Superior Outfit of S. J. Addis' Carvers'****Tools in Oak Case.**

- No. 219. This Set is supplied in a Polished Oak Case and contains 18 Best Beech Handled South Kensington Tools, 3 Buhl Punches, 1 Carvers' Knife, 1 Set of four Arkansas Slips, 1 Mallet, 2 Cramps, 1 Carvers' Router, and Book of Instructions. Price, £4 11 6.

**Carving Tool Handles.**

- No. 220. Ash or Beech Carving Tool Handles, assorted to $\frac{5}{8}$ in. ferrules, 3/- per doz.
 No. 221. Boxwood Carving Tool Handles, assorted to $\frac{5}{8}$ in. ferrules, 5/- per doz.

Good Tools greatly assist in the production of Good Work.

**Carving Tools.**

BEST QUALITY.

ALL TOOLS GROUND SHARP.

All sizes rising by $\frac{1}{16}$ th in. to $\frac{3}{8}$ in. and then by $\frac{1}{8}$ th in.

Nos.	$\frac{1}{16}$ to $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	in.
1, 2	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	2/-	$2\frac{1}{2}$
3-9	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{10}$	—	—
10	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{2}{2}$	$\frac{2}{6}$	—	—
11	$\frac{1}{8}$	$\frac{2}{2}$	$\frac{2}{6}$	$\frac{2}{10}$	—	—

Curved Gouges.

Nos.	$\frac{1}{16}$ to $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
12-18 ...	$\frac{1}{7}$	$\frac{1}{10}$	$\frac{2}{4}$	$\frac{2}{8}$
19 & 20...	$\frac{1}{10}$	$\frac{2}{4}$	$\frac{2}{8}$	$\frac{3}{2}$

Bent Chisels.

All sizes rising by $\frac{1}{16}$ th from $\frac{1}{16}$ in. to $\frac{3}{8}$ in. and then by $\frac{1}{8}$ th in.

Nos. 21 to 23

$\frac{1}{16}$ to $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
$\frac{1}{5}$	$\frac{1}{7}$	$\frac{1}{9}$	$\frac{2}{4}$	$\frac{2}{8}$	$\frac{3}{2}$

Front Bent Gouges.

Nos. 24 to 30

$\frac{1}{16}$ to $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
$\frac{1}{7}$	$\frac{1}{9}$	$\frac{2}{4}$	$\frac{2}{8}$

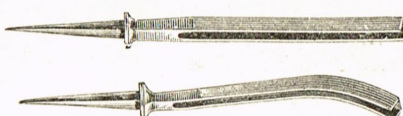
Nos. 31 and 32

$\frac{1}{16}$ to $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
$\frac{1}{10}$	$\frac{2}{4}$	$\frac{2}{10}$	$\frac{3}{2}$

Back Bent Gouges.

Nos. 33 to 38	$\frac{1}{16}$ to $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
...	$\frac{1}{7}$	$\frac{1}{9}$	$\frac{2}{4}$	$\frac{2}{8}$

These Carving Tools are all sent out Ground sharp.

Macaroni Tools.

Straight or Bent,

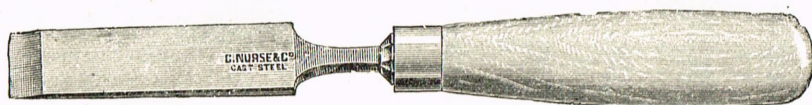
$\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, or $\frac{3}{8}$ in., $\frac{2}{6}$ each.

Parting Tools.

$\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ in.

Nos. 39, 41, 45	...	$\frac{1}{11}$ ea.
„ 40, 42, 43, 44, 46	$\frac{2}{2}$	„

Hobbies are both helpful and healthful — Carving is a good one.

CHISELS.

C. S. Firmer Chisels.

The Standard Chisel for ordinary use.

No. 237.

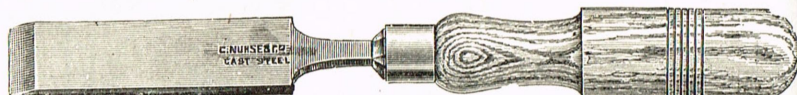
		$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 235.	Unhandled ...	1/8	1/8	1/8	1/9	1/10	1/11	1/12	1/13	1/8	2/1	2/6	3/-
„ 236.	With Ash Handles ...	1/-	1/-	1/-	1/1	1/2 1/2	1/3 1/2	1/4 1/2	1/8	2/1	2/6	3/-	3/6
„ 237.	With Carver Box Handles ...	1/3	1/3	1/3	1/4	1/5 1/2	1/6 1/2	1/7 1/2	1/11	2/4	2/9	3/4	3/10

Per Set of 12— $\frac{1}{8}$ to $1\frac{1}{2}$ in.—No. 235, 12/6; No. 236, 17/6; No. 237, 20/6

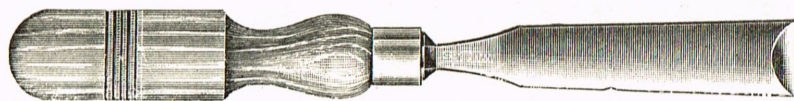
Strong C. S. Firmer Chisels.

Suited, as the name implies, for heavier work.

No. 240.



		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 239.	Strong Firmers, Unhandled ...	1/10	1/10	1/11	1/-	1/1 1/2	1/2 1/2	1/7	2/2	2/6	3/2	3/8
„ 240.	With Ash Handles ...	1/2 1/2	1/2 1/2	1/3 1/2	1/4 1/2	1/6	1/7	2/-	2/7	3/-	3/8	4/2

Set of 9— $\frac{1}{4}$ to $1\frac{1}{2}$ in.—No. 239, 12/6; No. 240, 16/-

Round Backed Firmers.

These are less expensive than the Bevelled Edge Chisels and somewhat stronger also.

No. 242.

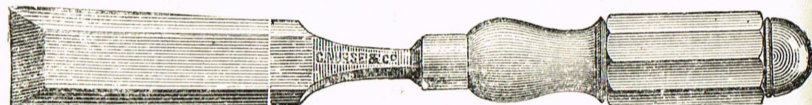
		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
No. 241.	Unhandled ...	1/10	1/11	1/-	1/1 1/2	1/2 1/2	1/7	2/6
„ 242.	With Ash Handles ...	1/2 1/2	1/3 1/2	1/4 1/2	1/6	1/7	2/-	3/-

Set of 9— $\frac{1}{4}$ to $1\frac{1}{2}$ in.—No. 241, 12/6; No. 242, 16/-

Bevelled Edge Firmers.

The thinner edges of these are helpful in mortices, dovetailing, and any close work.

No. 245.



		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 243.	Unhandled ...	1/3	1/3	1/4	1/5	1/6	1/7	1/10	2/7	3/8
„ 244.	With Box Carver Handles ...	1/10	1/10	1/11	2/-	2/1	2/2	2/6	3/3	4/5



Long Thin Paring Chisels.

Specially useful to all Pattern Makers.

No. 247.

		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 246.	Unhandled ...	1/2	1/2	1/3	1/5	1/7	2/1	2/10	3/6	4/-
„ 247.	With Box Carver Handles ...	1/9	1/9	1/10	2/-	2/2	2/9	3/6	4/2	4/10

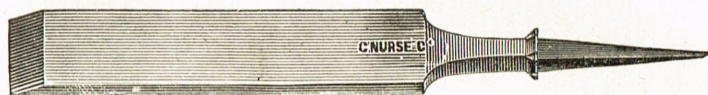
Bevelled Edge Long Thin Paring Chisels.

No. 251.



		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 249.	Unhandled ...	2/-	2/1	2/2	2/4	2/6	3/-	4/2	4/10	5/10
„ 250.	With Box Carver Handles ...	2/7	2/8	2/9	2/11	3/5	3/8	4/10	5/6	6/6

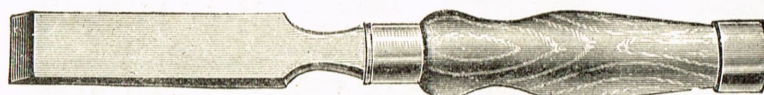
Nothing is of greater importance to the user than the quality of his Edge Tools. Those we list above are made specially for us by one of the very best Sheffield Makers, and bear our brand and are fully guaranteed by us. A 1 in. Firmer Chisel measures about $5\frac{1}{2}$ in. to the Bolster, a Coach Chisel about $7\frac{1}{2}$ in., and Mill and Paring Chisels, $9\frac{1}{2}$ in.

Chisels—continued.Coachmakers'
Chisels.

No. 252.	...	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
		1/1	1/1	1/2	1/3	1/5	1/7	1/11	2/9	3/2	3/10	4/10

Millwrights'
Chisels.

No. 253.	...	$\frac{1}{5}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{3}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
		1/5	1/6	1/9	2/4	3/-	3/9	4/9	5/8	6/10

Extra Strong Ash
Handled Chisels.A very popular
pattern for use on
hard woods.

No. 254.	...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
		1/10	1/10	1/11	2/2	2/10	3/1	3/6	4/1	4/6

Bright Socket
Primer Chisels,
Handled.A Light Chisel
and one much
liked.

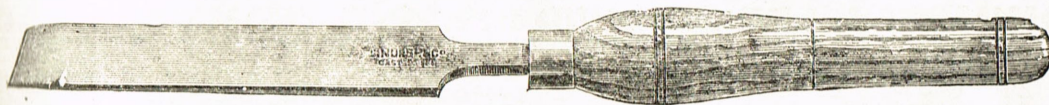
No. 255.	...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
		1/11	2/2	2/3	2/9	3/1	3/6	4/-	4/6	5/-

Best Solid
Cast-steel
Socket
Chisels.

No. 257.

Note the word
Solid.

No. 256.	Unhandled	...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
" 257.	Ash Handled	...	2/4	2/4	2/4	2/6	2/8	3/1	3/8	4/2	4/9	5/4
			3/-	3/-	3/-	3/2	3/4	3/9	4/4	4/10	5/5	6/-

Best
Cast-steel
Turning
Chisels.

No. 259.

No. 258.	Unhandled	...	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
" 259.	Beech Handled	...	-/11	1/1	1/5	1/9	2/2	2/10	3/5	4/-
			1/5	1/7	2/1	2/5	2/10	3/6	4/2	4/9

Long Strong
Turning Chisels.

No. 260.

No. 260.	Unhandled	...	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
			1/6	1/8	2/-	2/6	3/1	4/1	5/3	6/2

Round Nose Turning
Chisels.Cannelled One Side
only.

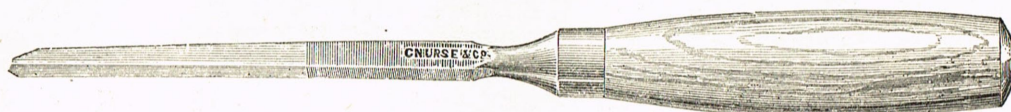
No. 261.	Unhandled	...	...	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	in
" 262.	Beech Handled	...	...	1/1	1/3	1/8	2/-	2/6	3/3	
				1/7	1/9	2/4	2/8	3/2	3/11	

Edge Tools require guidance as well as strength.

That's up to you!

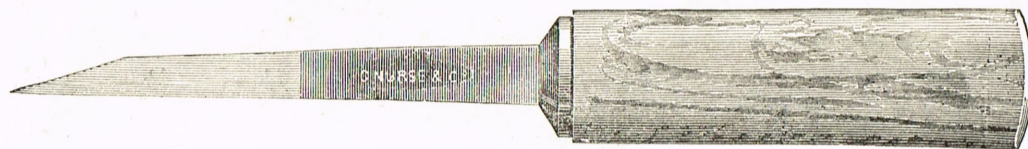
Chisels—continued.

London Pattern Boxwood Handled Sash Mortice Chisels.



No. 264.	...	...	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
			3/6	3/6	3/6	3/6	3/8	3/9	4/1	4/4	4/8	5/5

Oval Beech Handled Solid Steel Mortice Chisels.



No. 265.	...	...	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
			3/6	3/6	3/9	4/-	4/3	4/6	4/9	5/-	5/3	6/6

London Pattern Box Handled Lock Mortice Chisels.

No. 266. $\frac{1}{2}$ in., 5/2; $\frac{9}{16}$ in., 5/5; $\frac{5}{8}$ in., 5/9

Improved Swan Neck Lock Mortice Chisels, Unhandled.

No. 267. $\frac{7}{16}$ in., 6/10; $\frac{1}{2}$ in., 6/10; $\frac{9}{16}$ in., 7/3; $\frac{5}{8}$ in., 7/6

Wood Turners' Parting Tools.

No. 268. Unhandled, 1/- each.

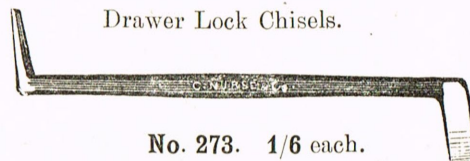
No. 269. Beech Handled, 1/5 each.

No. 270. Boxwood Handled, 1/7 each.

Gas Fitters' Solid Steel Chisels.

No. 271. $\frac{1}{2}$ in., 2/1; $\frac{3}{4}$ in., 2/5; 1 in., 2/10

Drawer Lock Chisels.



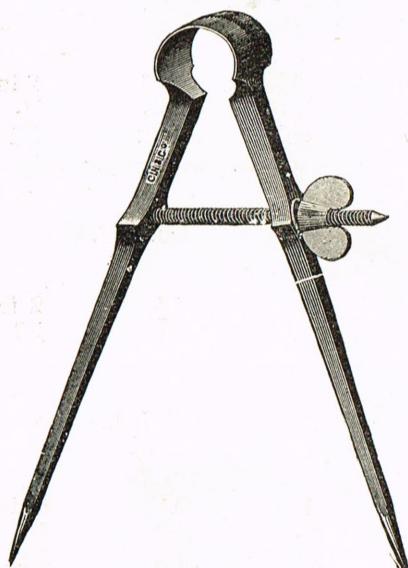
No. 273. 1/6 each.

Handled Sash Pocket Chisels.

No. 272.	$\frac{11}{2}$	$\frac{13}{4}$	2	$\frac{21}{4}$	$2\frac{1}{2}$ in.
	2/4	2/8	3/-	3/8	4/4

Button-hole Chisels.

No. 274.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
	1/-	1/1	1/2	1/3	1/4	1/5

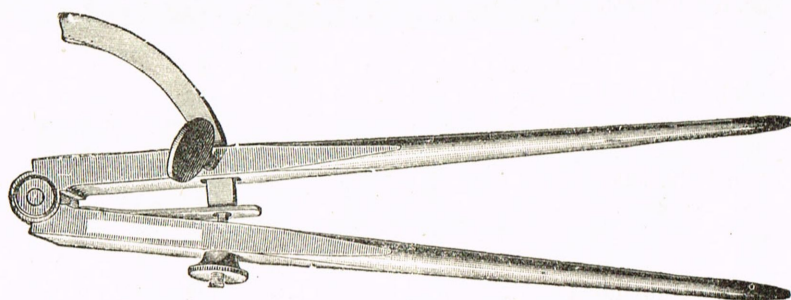
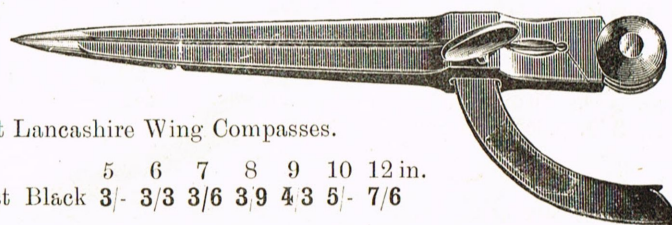
COMPASSES, SPRING DIVIDERS, AND TRAMMEL HEADS.

Black Spring Dividers.

No. 277 $\frac{1}{2}$.	4	5	6 in.
	1/9	2/-	2/3

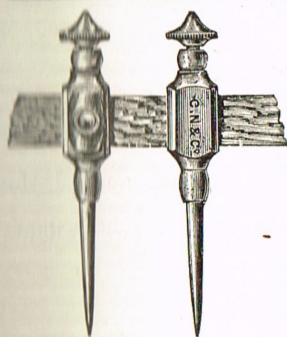
Best Lancashire Wing Compasses.

	5	6	7	8	9	10	12 in.
No. 278. Best Black	3/-	3/3	3/6	3/9	4/3	5/-	7/6



Bright Wing Compasses with Sensitive Adjustment.

No. 281.	5	6	7	8 in.
	2/-	2/3	2/6	3/- pair.



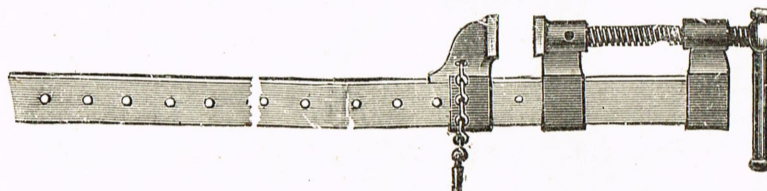
Best Brass Trammel Heads, Steel Points, and Pencil Socket.

No. 285.	No. 1.	To fit rod,	$\frac{9}{16} \times \frac{1}{4}$ in.	...	...	...	...	5/-	per pair.
„ 286.	„ 2.	Ditto	$\frac{11}{16} \times \frac{5}{16}$ „	...	...	...	...	5/9	„
„ 287.	„ 3.	Ditto	$\frac{13}{16} \times \frac{7}{16}$ „	...	...	...	...	7/3	„
„ 288.	„ 4.	Ditto	$1 \times \frac{1}{2}$ „	...	...	...	...	8/3	„
„ 289.	„ 5.	Ditto	$1\frac{3}{8} \times \frac{5}{8}$ „	...	...	...	...	12/6	„

CRAMPS—SASH, T BAR, AND FLOORING.

No. 299. Improved Sash Cramps.

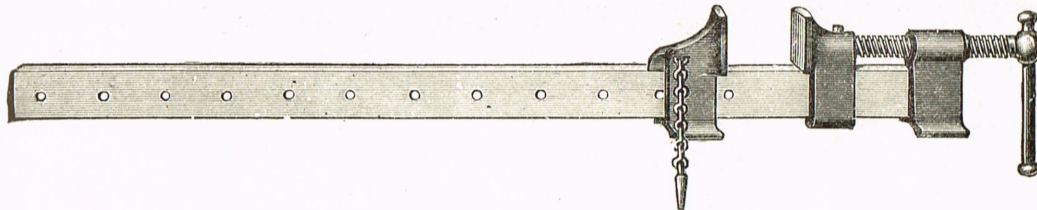
Bright Steel Bars, $1\frac{1}{4}$ in. $\times$ $\frac{1}{4}$ in., Malleable Iron Fittings, with Bright Steel Screw and Handle.



Length of Bar	...	...	...	...	...	...	24	30	36	42	48 in.
To take in	...	...	...	...	...	...	18	24	30	36	42 „
Price	...	...	...	...	...	...	12/-	12/3	12/6	13/-	14/-

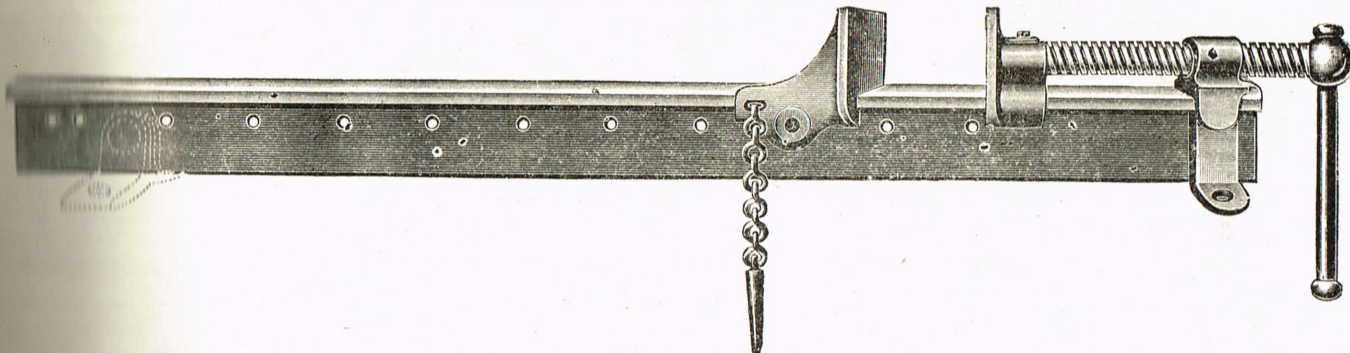
No. 300. Extra Strong Improved Sash Cramps.

Bright Steel Bars, $1\frac{1}{2}$ by $\frac{5}{16}$ in., Malleable Iron Fittings, with Bright Steel Screw and Handle.



Length of Bar	...	...	...	...	...	...	24	30	36	42	48 in.
To take in	...	...	...	...	...	...	18	24	30	36	42 „
No. 300. Price	...	...	...	...	...	...	14/-	14/6	15/-	15/6	16/- each.
„ 301. Lengthening Bars for same	...	...	...	...	...	...	10/-	10/6	11/-	—	—

T Section Strong Steel Bar Cramps.



No. 302. These T Bar Cramps are of exceptional strength in comparison to their weight. The Bars are made of the best mild steel, the Screw and Handle from wrought iron, and the fittings from best malleable iron.

	Length of Bar	...	...	...	...	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7 ft.
No. 302.	Strong Bars, section $2\frac{5}{8}$ by $\frac{7}{8}$ in.	...	...	...	...	25/-	26/-	27/-	28/-	29/-	30/-	32/6
„ 303.	Light Bars, section $1\frac{3}{4}$ by $\frac{3}{4}$ in.	...	...	...	...	18/-	18/9	19/6	20/3	21/-	—	—
„ 302L.	Lengthening Bars for $2\frac{5}{8}$ by $\frac{7}{8}$ in.	...	...	...	...	13/-	13/9	14/9	15/9	16/6	17/6	—
„ 303L.	Lengthening Bars for $1\frac{3}{4}$ by $\frac{3}{4}$ in.	...	...	...	...	10/-	10/9	11/6	—	—	—	—

"Climax" Patent Cramps.

Unequalled for Strength, Lightness, Simplicity, and Durability.

ADVANTAGES.

Self-fastening Sliding Jaw, which only requires pushing up to the Work. The greater the pressure applied, the firmer the grip.

Instant Adjustment on any part of the Bar, saving time, and also obviating the necessity for a long screw, so liable to strain.

Steel Bar, without holes, giving double strength over the ordinary perforated iron bars.



No. 304.	Climax Patent T Bar Cramps, Section, 2½ in. by ¾ in. Depth of Jaws, 2½ in.	Length over all	4	4½	5	6	7 ft.
		To take in	3	3½	4	5	6 „
			35/-	37/-	40/-	44/-	48/-
No. 305.	Lengthening Bars for same, 3 ft., 17/6; 4 ft., 19/6; 5 ft., 21/6 each.						

Light T Steel "Climax" Cramp.

No. 306. Steel Bar T Section, 2½ by ½ by ⅝ in. Depth of Jaws, 2½ in.

Having had numerous inquiries for a T Steel Cramp, lighter than our No. 304, we now offer one with considerable confidence. The Steel has been specially rolled to withstand great tensile strain.

No. 306.	Length	..	...	...	...	...	...	3½	4	5	6 ft.
	...	...	...	...	...	...	...	30/-	32/-	35/-	37/6
No. 307. Eke, or Lengthening Bar, 3 ft., 16/6 each.											

We strongly recommend an Eke to be ordered with every Cramp, the convenience of having one cannot be overestimated.

"Climax" Sash Cramps.

No. 308. Steel Bar, 1½ by ¼ in.
Depth of Jaws, 1½ in.



No. 309. Steel Bar, 1½ by ⅝ in.
Depth of Jaws, 2 in.

No. 308.	Bright Bars, 1½ by ¼ in.	...	...	...	...	...	...	24	30	36	42 in.
		...	...	...	...	...	...	14/6	16/6	18/6	21/-
No. 309.	" 1½ by ⅝ "	...	...	...	...	...	...	18/6	21/-	23/-	25/-



T Steel Section, 1½ by ½ in. Depth of Jaws, 1½ in.

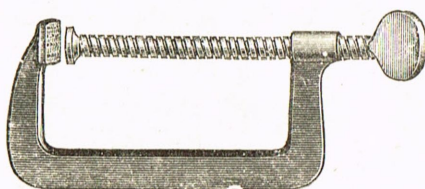
No. 310.	Black Bars	Length ...	...	...	...	...	...	30	36	42	48 in.
		...	...	...	...	...	...	21/-	23/6	25/6	27/6

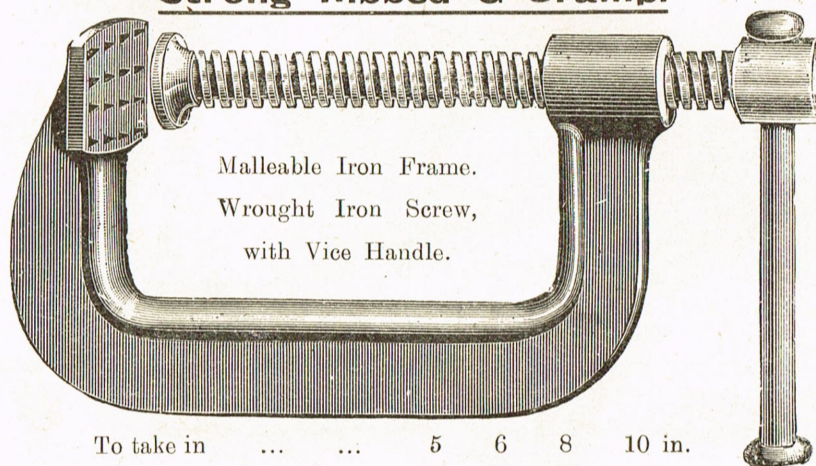
Above Sash Cramps take in about 6 in. less than length given.

Best Machine Cut Square Thread Cramps.

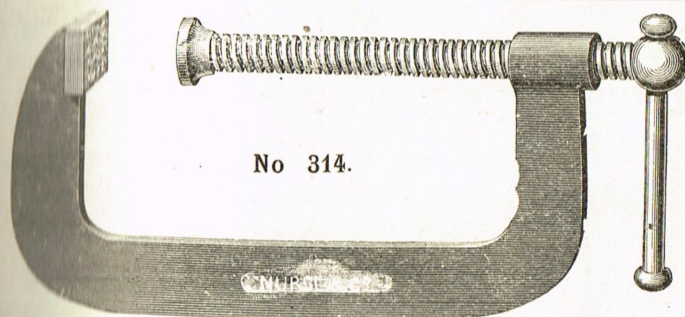
No. 311.

To take in	2	3	4	5	6	7	8 in.
Price	2/9	3/-	3/6	4/3	4/9	5/9	6/3 each.



Cramps—continued.**Strong Ribbed G Cramp.**

To take in ... 5 6 8 10 in.
No. 312. Strong Ribbed G Cramps 6/- 6/3 10/- 11/- each.

Strong G Cramp.

With Vice Handle.

To take in	...	4	5	6 in.
Made from Iron	...	$1\frac{1}{4} \times \frac{5}{16}$	$1\frac{1}{4} \times \frac{3}{8}$	$1\frac{1}{2} \times \frac{3}{8}$ in.
Diam. of Screw	...	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$ in.
Price, No. 314	...	8/3	8/9	10/3 each.
To take in	...	8	10	12 in.
Made from Iron	...	$1\frac{3}{4} \times \frac{3}{8}$	$2 \times \frac{3}{8}$	$2 \times \frac{1}{2}$ in.
Diam. of Screw	...	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{15}{16}$ in.
Price, No. 314	...	12/6	14/-	16/6 each.

Made entirely from Best Wrought Iron.

Coachmakers' Cramp.

No. 315. Frame made from Best Wrought Iron, with Steel Screw.

To take in	...	12	14	16	18	20 in.
Made from Iron	...	$2\frac{1}{4} \times \frac{1}{2}$	$2\frac{1}{2} \times \frac{1}{2}$	$2\frac{1}{2} \times \frac{5}{8}$	$2\frac{3}{4} \times \frac{5}{8}$	$3 \times \frac{3}{4}$ in.
Diameter of Screw	...	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$ in.
Price	...	28/6	32/6	39/-	41/-	55/- each.

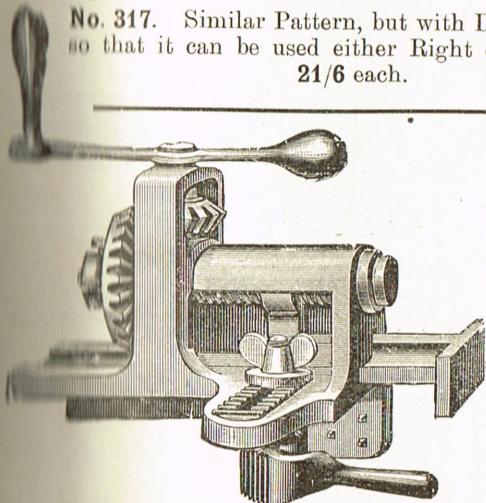
As the last straw is said to break the Camel's back, so the last turn sometimes twists the Cramp. The above Cramps are well made of good material, but undue pressure will bend any cramp yet made.

**Flooring Cramps.
Kimberley Pattern.**

No. 316. Wrought Iron throughout. To suit Joists $1\frac{1}{2}$ to $3\frac{1}{2}$ in. Price, 39/- per pair.

These Cramps are supplied in pairs, one right and one left hand. If required singly, price is 19/6 each, and the hand required must be stated.

No. 317. Similar Pattern, but with Double Prongs, so that it can be used either Right or Left hand. 21/6 each.

**Bissell's Pattern
Flooring Cramps.**

No. 318.

Malleable Iron Frame with Steel Working Parts.

To suit Joists 2 to $3\frac{1}{2}$ in., 26/6 each.

No. 318 is similar to 319, but with Handle at side.

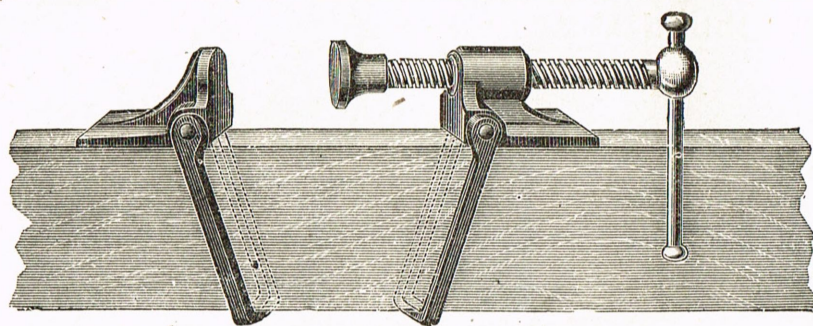
Improved Flooring Cramp.

No. 319.

Handle on Top. Malleable Iron Frame with Malleable and Wrought Iron Working Parts.

To suit Joists 2 to $3\frac{1}{2}$ in., 29/6 each.

We do not stock either Nos. 318 or 319 in the common make with Cast Iron frames.

**Cramp Heads.**

No. 320. Wrought Iron Screw, Handle, and Straps.

Sizes	1	2	3
Diam. of screw	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{15}{16}$ in.
To suit plank	$4 \times 1\frac{3}{4}$	$5\frac{1}{2} \times 2\frac{1}{2}$	$6 \times 3\frac{1}{4}$ in.
Price per pair	8/6	11/-	14/6

The advantage of these loose heads is that a thoroughly reliable Cramp can be at once made with planks to any length.

Improved Malleable Iron Dogs or Joint Cramps.

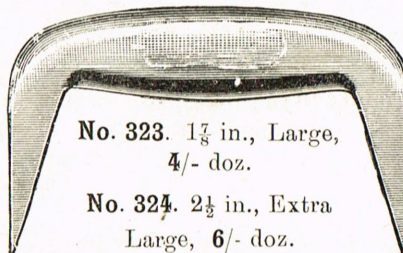
Full size illustrations.



No. 321.
1 in.,
Small,
2/- doz.



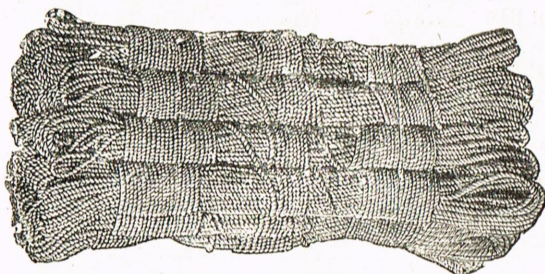
No. 322.
 $1\frac{1}{8}$ in.,
Medium,
3/- doz.



No. 323. $1\frac{7}{8}$ in., Large,
4/- doz.
No. 324. $2\frac{1}{2}$ in., Extra
Large, 6/- doz.



Wrought
Joiners' Dogs.
No. 325. 2 $2\frac{1}{2}$ 3 in.
Wrought Iron $1\frac{1}{6}$ $1\frac{1}{9}$ $2\frac{1}{2}$ -doz.

Chalk Lines and Reels.

No. 328-330.

No. 328. Hemp Chalk Lines, -/2 $\frac{1}{2}$, -/3, and -/4 per knot.

„ 329. Cotton Chalk Lines, -/4 per knot.

„ 330. Peacock's Best Cotton Chalk Lines—Thin, -/6; Thick, -/8 per knot.

„ 331. Reels for ditto—Ash, -/4; Boxwood, -/6 each. Extra Long Boxwood Reels, -/9 each.

„ 332. Brass Line Reels, 1/6 each.

„ 333. Pins for ditto—Bright Steel, 1/6 per pair.



No. 331.



No. 332.



No.
333.

Draw Bore Pins.

No. 334. 9 in. Beech Handled Draw Bore Pins, 6/6 per pair. No. 334 B. 9 in. Boxwood Handled ditto, 7/- per pair.

No. 335. Coachmakers' Draw Bore Pins,
7 in. $\times \frac{1}{4}$ in., 5/6 per doz.; 7 in. $\times \frac{5}{16}$ in., 7/6 per
doz.; 8 in. $\times \frac{3}{8}$ in., 10/6 per doz.



No. 335.

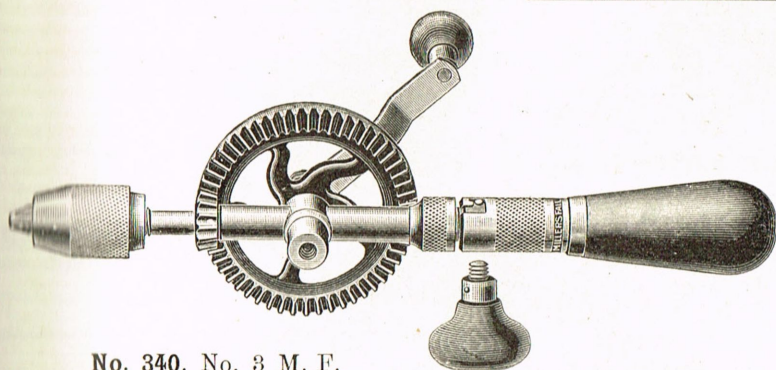
Draw Knives.

No. 337. Best Cast Steel Joiners' Draw Knives.

8	9	10	11	12 in.
4/9	5/-	5/6	6/-	6/6 each.

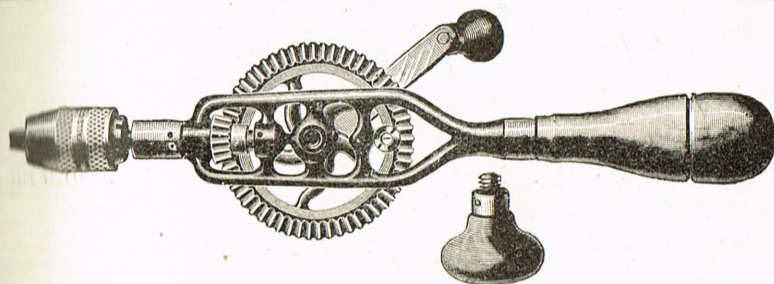
No. 339. Light Boxwood Handled Draw Knives.

6	7	8
4/9	5/6	6/- each.

HAND DRILLS.**No. 340.** No. 3 M. F.

Price, No. 3 M.F. **13/3** each.

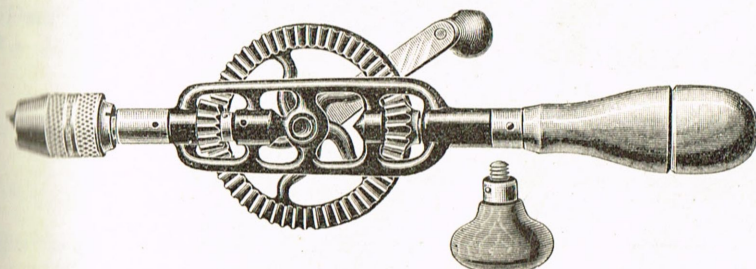
In this Hand Drill the handle is hollow and specially adapted to hold twist drills of the ordinary length from 0 to $\frac{3}{16}$ in. Length 11 in., diameter of drive wheel $3\frac{3}{16}$ in. All bright parts are nickelled. Drive gear japanned. No drills included.

**No. 341.** No. 1 M. F.

Price, including 8 fluted points in hollow handle **13/-** each.

No. 342. The above is also made with Solid Handle and without Drill Points, **11/9**.

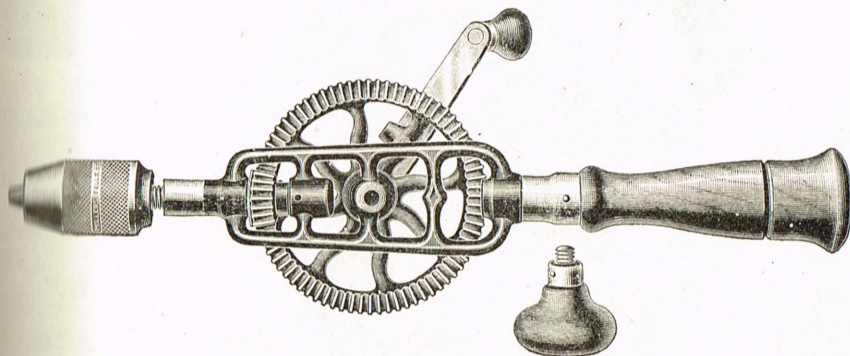
These Drills are now made with three jaws, resting in solid sockets, and there are no springs to get out of place or out of order. The chucks are nickelled, and the handles Cocobolo. They hold drills from 0 to $\frac{3}{16}$ in. A side handle, as shown in cut, is now furnished with this drill.

**No. 343.** No. 5 M. F.

Price, including 8 fluted points **14/-** each.

No. 344. The above is also made with Hollow Handle similar to No. 3 to take in ordinary length Twist Drills. Price without Drills, **12/9** each.

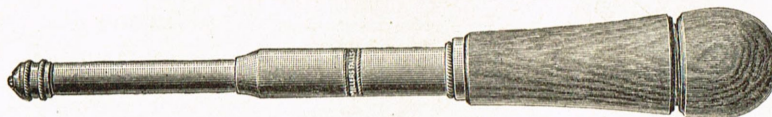
This Drill has same chuck as No. 1, but is double-gear, and is provided with a wide rim gear, to be grasped between thumb and fingers when the drill is used for delicate work. In this manner it can be run without liability of breaking points. Length over all, $11\frac{1}{2}$ in.; weight, 20 oz.

**No 345.** No. 02 M. F. Ball Bearing.

Price, with Solid Handle **17/-** each.

This Drill is same in general finish as No. 1, described above. It has cut gears and an adjustable friction roll to prevent gears from springing out of engagement. The chuck holds from 0 to $\frac{3}{8}$ in. Length, $14\frac{1}{2}$ in.

A large variety of Hand Drills will be found, together with Breast Drills and Drilling Machines, in the Engineers' Section of our Catalogue.

Drills—continued.Automatic Boring Tools.

No. 4 M. F.

These tools are perfect in both quality and finish.

No. 350. No. 4 M. F. Cocobola handle, with cells for the 8 points, 10/- each.
Extra Drill Points, 2/3 per set of 8.

"Yankee" Automatic Drill.

No. 351. No. 42 Y.

No. 351. No. 42 Y. For Carpenters, Cabinet Makers, etc., for boring wood for various purposes, as setting screws, brads, nails, etc. Bore holes in hard or soft woods without splitting. Pushing handle down revolves the drill, and a spring pushes handle back to its place.

8 drill points are furnished with each tool, one each, $\frac{1}{16}$, $\frac{5}{64}$, $\frac{3}{32}$, $\frac{7}{64}$, $\frac{1}{2}$, $\frac{9}{64}$, $\frac{5}{32}$, and $\frac{11}{64}$ in. Price, 7/6 each.

Reciprocating Automatic Drill. No. 101.

For Iron, Brass, or Wood.

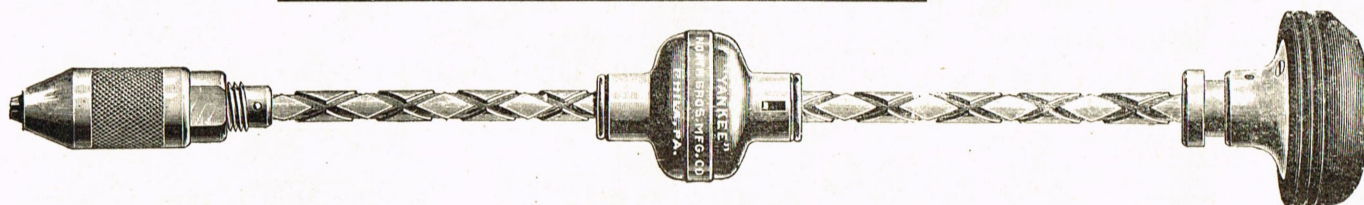


This tool will be found very useful for drilling holes where Braces, Breast Drills, or Hand Drills cannot be conveniently brought into play the three-jawed Chuck has a capacity to $\frac{1}{4}$ in.

No. 352. No. 101. Price, 12/6 each. Sets of Special Twist Drills to suit above from $\frac{1}{16}$ to $\frac{1}{4}$ in. by $\frac{1}{32}$ in., 5/6 per set.

"Yankee" Reciprocating Drill.

No. 50 Y.



The movement or traverse of the driver is $8\frac{1}{2}$ in. The entire length of tool without drill is 16 in.

No. 353. No. 50 Y. The materials and workmanship throughout are of the best, and each tool is guaranteed. Packed in strong paper box. Price, 14/- each.

No Drill Points are furnished with this tool—the user furnishing such quality, style, and size best suited for work required in wood, iron, steel, brass, etc. The Chuck will hold any Drill with shanks $\frac{3}{16}$ in. diameter or less.

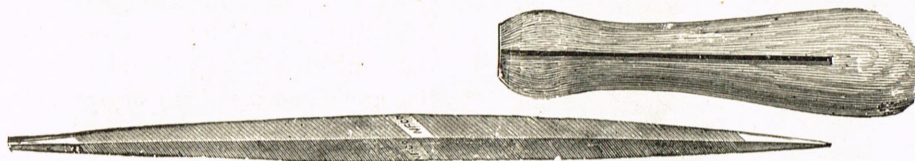
"Yankee"
Push Brace.

No. 354. This tool will hold all the small tools used in a Bit Brace, but is operated by pushing the handle to revolve the tools in the same manner as in the Yankee Spiral Ratchet Turnscrows. It will bore $\frac{3}{16}$ in. holes in metal, drive a $\frac{3}{8}$ in. Auger Bit in Hardwood or a $\frac{5}{8}$ in. Bit in Pine. Extreme Length when open, $23\frac{1}{2}$ in.; closed, $16\frac{1}{4}$ in. No. 354. Price, 19/-

SAW FILES AND CABINET FILES AND RASPS.

No. 361.

No. 361. Best C.S. Taper Single Cut Saw Files. }	2½	3	3½	4	4½	5	6	7	8	9	10	12 in.
	-/7	-/7	-/7	-/7½	-/7½	-/8½	-/11	1/1½	1/5	1/10	2/-	2/10
No. 362. Best ½ Round Gulleting Saw Files	—	—	—	-/8½	-/9½	-/10½	1/1½	1/4	1/8	—	—	— each.
No. 363. Best Round Ditto	—	—	—	-/8½	-/9½	-/10½	1/1½	1/4	1/8	—	—	— „

“Double Ender” Handsaw Files and Handles.

No. 364. These are designed as an improvement upon the ordinary Taper Saw File, giving a greater cutting surface.
7 in. -/10½; 8 in. 1/-; 9 in. 1/1½; 10 in. 1/3½; 12 in. 1/8 each. Including Special Handle with each File.

Best C. S. Mill Saw Files with 2 Round Edges.

No. 365. Best C. S. Mill Saw Files, Single Cut, with two Round Edges	...	...	8	9	10 in.
			1/5	1/7	1/10 each.
No. 367. Riffler Bastards, Assorted Patterns, 8 in. 1/6; 9 in. 1/8; 10 in. 1/10.					

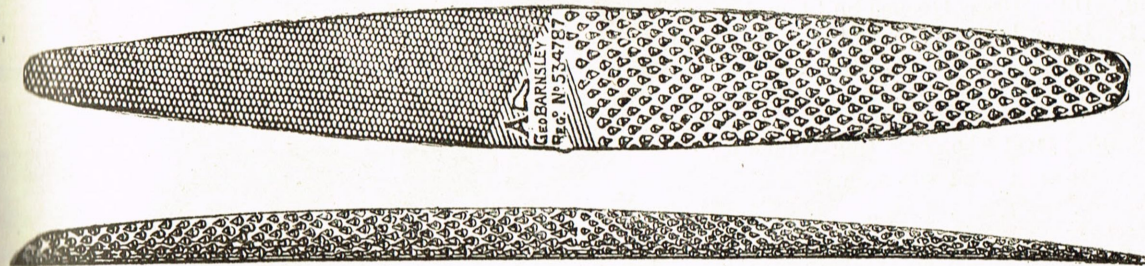


No. 371.

	Size	...	...	...	...	4	5	6	7	8	9	10	12	14 in.
No. 368. Half Round Cabinet Files	...	...	...	...	...	1/-	1/2	1/4	1/7	1/9	2/-	2/3	2/9	3/9 each.
No. 369. Half Round Cabinet Rasps	...	...	...	...	...	1/-	1/2	1/4	1/7	1/9	2/-	2/3	2/9	3/9 „
No. 370. Round Wood Rasps	...	...	...	...	...	-/9	-/11	1/1	1/4	1/6	1/8	1/10	2/4	3/2 „
No. 371. Half Round Wood Rasps	...	...	...	...	...	-/9	-/11	1/1	1/4	1/6	1/8	1/10	2/4	3/2 „

Special “Registered” Rasp.

No. 372.

8/-
each3/-
each

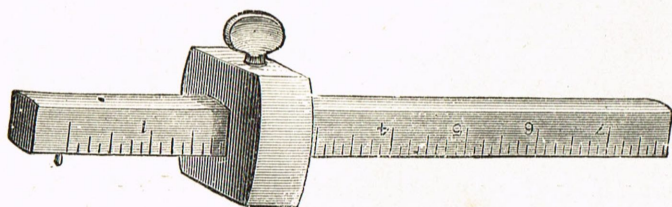
Section of ¼ File.

Made also ½ File Reverse Pattern.

It will be noticed one-half is a fine taper with thin edges to get close into the work, the other half being a full half round.

There are three different finenesses of cuts of Rasp on the ¼ File, and two on the ½ File Reverse, allowing of a fine smooth finish being attained.

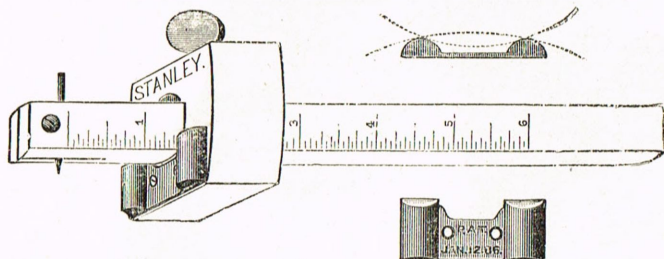
For other Patterns of Files, see Engineers' Section of List.

GAUGES—Marking.

Nos. 377 and 378.

No. 377. Beechwood Gauge, Rule Marked. -/7 each.

No. 378. Ditto, Polished, with Adjusting Steel Point, 1/3 each.



No. 379. Polished Beechwood, Rule Marked Stem, Adjusting Steel Point, with two Brass Ribs or Projections, which ensure steadiness when running a gauge line around curves of any degree, 1/6 each.

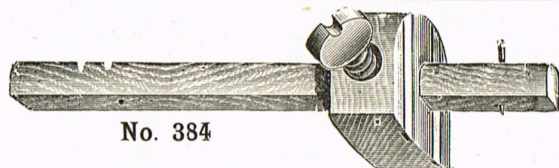


The steel points are attached very near the end of the bars to admit of being used close up into a rabbet or corner. The head of the Marking Gauge can be turned over for a broad or narrow bearing as desired.

No. 381. No. 90 S. Nickel-plated Marking Gauge, 3/6 each.

New Pattern Gauge, similar to above, but having a Duplex Head, with Roller Cutter at one end and steel pin at opposite end.

No. 382. No. 97 S. Nickel-plated Duplex Marking Gauge, 5/- each.



No. 384

No. 383. Best Polished Edge Beechwood, 1/6 each.

,, 384. Ditto, Brass Plated, 2/- each.

,, 385. Best Polished Hardwood Gauge, 3/- each.

Cutting Gauges.

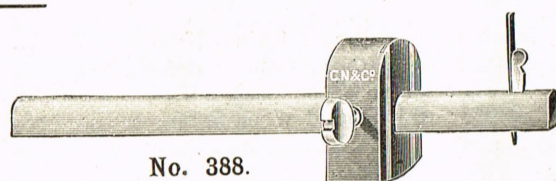
No. 387. Polished Edge Beechwood Cutting Gauge, 1/9 each.

,, 388. Ditto, Brass Plated on Face 2/3 ,,

No. 389. Polished Hardwood Cutting Gauge 3/3 each.

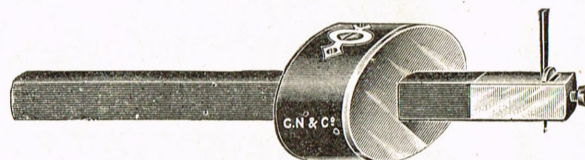
,, 390. Ditto, Brass Hooped on Stem 4/- ,,

,, 391. Ditto, Ditto, and also Plated on Head 5/- ,,



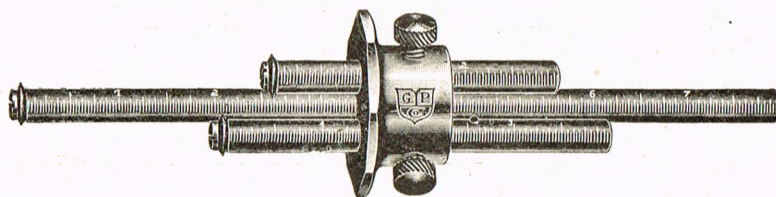
No. 388.

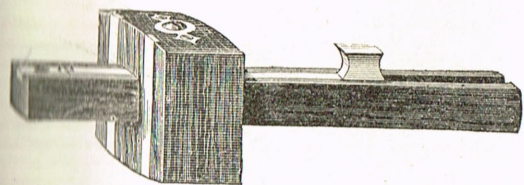
No. 392. Best Oval Ebony Cutting Gauge with Head and Stem Brass Plated, 9/6 each.

**Triple Beam Roller Gauge.**

No. 400. This tool will be found a great convenience and labour saver where either single, double, or triple measurements are desired. The whole tool is polished and nickel-plated. Beams, 3 in., 4 in., and 8 in.

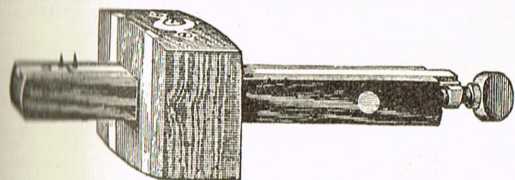
Price, 6/6 each. If with 2 Beams, 8 in. and 4 in., 5/9. Single Beam, 8 in., 4/6.



Gauges—Continued.Mortise.

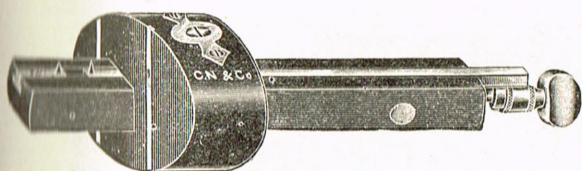
No. 405.

- No. 404. Rosewood Mortise Gauge, with Brass Slide and with Brass Shield on head 5/- each.
 „ 405. Ditto, Plated on face, as illustration ... 5/9 „



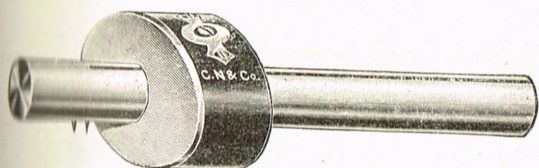
Nos. 406 and 407.

- No. 406. Rosewood Mortise Gauge, Square Head, Brass Plated with Thumbscrew 7/9 each.
 „ 407. Ebony Ditto 8/6 „

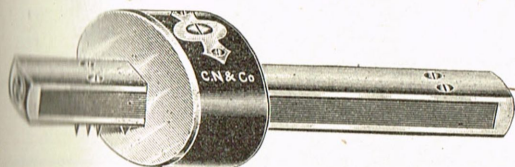


No. 408 and 409.

- No. 408. Rosewood Mortise Gauge, Oval Brass Plated Head, Thumbscrew End 8/- each.
 „ 409. Ebony Ditto 8/9 „
 Either of these Gauges can be supplied with Turncrew End in place of Thumbscrew at same price.



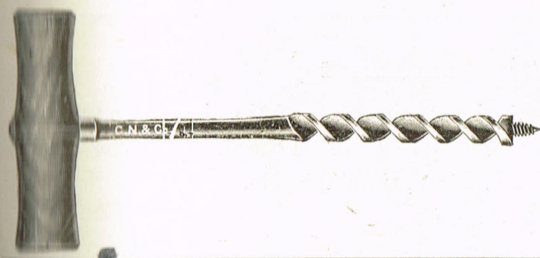
- No. 410. Our Special Line, Round Brass Stem Mortise Gauge, with Oval Ebony Brass Faced Head, 10/6 each.



- No. 411. Best Ebony Mortise Gauge, Brass Plated Stem, Oval Brass Faced Head, with 3 Pins, 16/6 each.

GIMLETS.

- No. 414. Best Twist Gimlets, 4/- per doz. Assorted to $\frac{1}{4}$ in.



- No. 415. Best Cast Steel Auger Gimlets.

$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$ in.
-/8	-/9	-/9	-/10	1/- each.

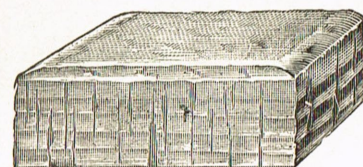


- No. 418. Bellhangers' Gimlets; 18 $\times \frac{1}{4}$ in., 1/4; 24 $\times \frac{5}{16}$ in., 1/8; 30 $\times \frac{5}{16}$ in., 1/10.

Glue, Glass Paper, Emery and Carborundum Cloth and Powder.



- No. 419. French Medal Glue, 1/4 per lb.
 „ 420. Best Glass Paper, 1/- per doz. sheets.
 „ 421. Best Glass Cloth, 2/0 per doz. sheets.
 „ 422. Best Emery Cloth, 2/6 per doz. sheets.
 „ 423. Extra Best Blue Twill Emery Cloth, 4/6 per doz. sheets.
 „ 425. Emery Powder in 1 lb. tins, Medium or Fine, -/9 per tin.
 „ 426. Emery Powder in 1 lb. tins, Washed Flour, -/10 per tin.
 „ 427. Carborundum Powder in 1 lb. packages; Nos. 80 100, 120, 150, 180, 220, F., 2/- per lb.



No. 428. C. Improved Cork Rubbers, -/7 each.

Glass Cutters and Glaziers' Diamonds.



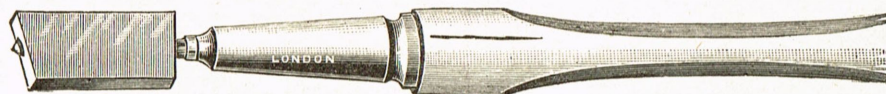
No. 430.



No. 431.

- No. 429. Reliable Glass Cutters -/9 each.
 „ 430. Ditto, with two Wheels 1/2 „
 „ 431. Improved Glass Cutters, with Six Cutting Wheels 1/6 „

Best London-made Glaziers' Diamonds.



- | | D. | C. | B. | A. |
|--|-----|------|------|------------|
| No. 432. Crown Diamonds for Sheet Glass | 8/- | 10/- | 13/6 | 17/6 each. |
| „ 433. Best Diamonds for Stout Sheet Glass | — | 20/- | 23/6 | 25/6 „ |
| „ 434. Best Plate Glass Diamonds | — | 30/- | 37/6 | 45/- „ |
| „ 436. Improved Leather Pocket Cases for above | — | — | — | 2/- „ |

All the above Diamonds we guarantee to be of London manufacture. Every one is fully and carefully tested, and the cutting quality proved to be satisfactory. They are also all guaranteed to re-set. Price for re-setting, 3/6 each, post free.

Glue Pots.



Best Quality, with Tinned inside Pans.

Nos.	6/0	4/0	3/0	2/0	0	1	2	3	4	5	6	7	8
No. 437. Inner Pan containing	1/4	3/8	9/16	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5 pints.
	3/-	4/-	4/6	5/-	5/6	6/3	7/9	9/6	11/6	13/6	15/6	17/6	19/6 each.

- No. 439. Best Quality Glue Brushes (Iron bound), -/9, 1/- each.

Safety Glue Pots.

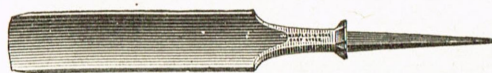
Gas heated, with burners protected, to suit the requirements of the Insurance Offices. These are made singly, and also in sets of two and three, of all the standard sizes of pots. Outer casing of galvanised iron, glue pot cast iron, tinned inside.

(Prices of Heaters only without Glue Pots.)

	To 1 pint	1 1/2 to 3 pints	4 pints	5 & 6 pints
No. 440. To hold 1 pot	22/-	25/6	31/-	36/6
„ 441. „ 2 pots	48/6	48/6	48/6	70/6
„ 442. „ 3 pots	58/6	58/6	58/6	88/-

No. 443. Suitable Iron Glue Pots for the above.

Sizes	1/16	3/4	1	1 1/2	2	3	4	5	6 pints.
Price extra	2/3	2/6	3/6	4/6	5/3	6/9	9/-	10/-	11/- each.

GOUGES. Firmer Gouges.

No. 444.

Sizes	...	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
No. 444. Unhandled	...	$-\frac{9}{16}$	$-\frac{9}{16}$	$-\frac{9}{16}$	$-\frac{10}{16}$	$-\frac{10}{16}$	1/-	1/1	1/2	1/4	1/6	2/-	2/5 ea.
„ 445. Ash Handled	...	1/2	1/2	1/2	1/2	1/3	1/4	1/5	1/6	1/8	1/10	2/5	2/10 „
„ 446. Box Carver Handled		1/4	1/4	1/4	1/5	1/5	1/7	1/8	1/10	1/11	2/1	2/8	3/1 „

Scribing Gouges or In-Cannelled Gouges.

No. 448.

Size	...	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
No. 447. Unhandled		1/1	1/1	1/1	1/1	1/2	1/3	1/3	1/4	1/5	1/7	1/9	2/3	2/9 ea.
„ 448. Box Carver														
Handled		1/8	1/8	1/8	1/8	1/9	1/10	1/10	1/11	2/-	2/2	2/4	2/11	3/5 „

Cast Steel Socket Gouges, Cannelled Inside.

No. 449.

No. 449. C.S. Socket Gouges, Cannelled Inside		$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
„ 450. Ditto Cannelled Outside		2/7	2/11	3/4	4/-	4/4	5/3	5/9 each.
		2/4	2/7	3/-	3/8	4/-	5/-	5/6 „

Long Thin Paring Gouges, Cannelled Inside.

Nos. 451-453.

Paring Gouges	...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
No. 451. Sweeps A, B, C, D, or E		2/-	2/-	2/2	2/4	2/6	2/8	3/-	4/-	4/6 each.
„ 452. Paring Gouges, F Sweep		2/1	2/1	2/3	2/5	2/7	2/9	3/1	4/2	4/9 „
„ 453. Paring Gouges, G sweep		2/3	2/3	2/5	2/7	2/9	2/11	3/3	4/4	5/- „

Cranked Paring Gouges.Cranked Paring Gouges advance $-\frac{1}{8}$ each over the above prices.

Firmer Gouges are stocked in E sweep only.

Scribing Gouges are stocked in C sweep only.

Paring Gouges are stocked in all sweeps.

D

 $\frac{1}{8}$
 $\frac{1}{4}$
 $\frac{3}{8}$
 $\frac{1}{2}$
 $\frac{5}{8}$
 $\frac{3}{4}$
 $\frac{7}{8}$
 $1\frac{1}{8}$
 $1\frac{1}{4}$
 $1\frac{1}{2}$

E

 $\frac{1}{8}$
 $\frac{1}{4}$
 $\frac{3}{8}$
 $\frac{1}{2}$
 $\frac{5}{8}$
 $\frac{3}{4}$
 $\frac{7}{8}$
 $1\frac{1}{8}$
 $1\frac{1}{4}$
 $1\frac{1}{2}$

F

 $\frac{1}{8}$
 $\frac{1}{4}$
 $\frac{3}{8}$
 $\frac{1}{2}$
 $\frac{5}{8}$
 $\frac{3}{4}$
 $\frac{7}{8}$
 $1\frac{1}{8}$
 $1\frac{1}{4}$
 $1\frac{1}{2}$

G

 $\frac{1}{8}$
 $\frac{1}{4}$
 $\frac{3}{8}$
 $\frac{1}{2}$
 $\frac{5}{8}$
 $\frac{3}{4}$
 $\frac{7}{8}$
 $1\frac{1}{8}$
 $1\frac{1}{4}$
 $1\frac{1}{2}$

Wheelers' Socket Bruzzes.



No. 454.	Sizes	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
	Prices	7/6	7/6	8/-	8/6 each.

Turning Gouges.



	Sizes ...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 456.	Unhandled ...	1/2	1/4	1/6	1/8	1/10	2/2	2/5	3/1	4/-	4/9	5/9 each.
„ 457.	Beech Handled ...	1/8	1/10	2/-	2/3	2/5	2/9	3/-	3/9	4/9	5/6	6/6 „

Long Strong Turning Gouges.

	Sizes ...	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
No. 458.	Unhandled ...	$2\frac{1}{4}$	$2\frac{5}{8}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{1}{4}$	$6\frac{1}{2}$	$7\frac{3}{4}$	$8\frac{1}{2}$ each.

Sets of Handled Turning Tools.

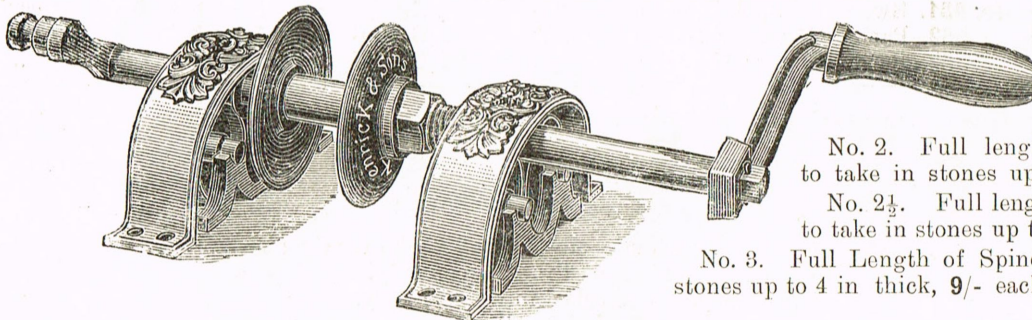
- No. 459.** Set of 12 Handled Wood Turning Tools, assorted, **26/-** per set.
„ 460. Set of 12 ditto, assorted, for Wood and Metal, **25/6** per set.
„ 461. Set of 6 Handled Wood Turning Tools, **13/-** per set.
„ 462. Set of 6 Handled Metal Turning Tools, **12/-** per set.

Best Yorkshire Grindstones.

Unmounted.

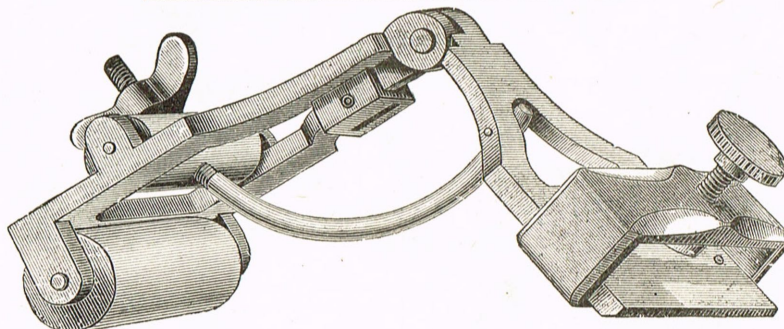
Sizes	6	7	8	9	10	12	14	16	18	20	22	24	30	36 in.	Net and Carriage Forward
No. 465.	2/-	2/2	2/4	2/6	2/9	3/6	4/6	5/6	6/6	7/6	9/-	10/6	21/6	30/-	each. at Owners Risk.

Grindstone Spindles.



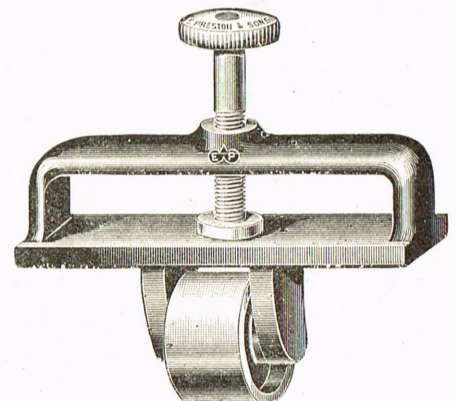
- 
- No. 466.** Improved English - made Cast - Iron Spindles with Roller Bearings, complete as illustrated.
- No. 2.** Full length of Spindle, 15×1 in., to take in stones up to $2\frac{1}{2}$ in. thick, **6/-** each.
- No. 2 $\frac{1}{2}$.** Full length of Spindles, $17 \times 1\frac{1}{8}$ in., to take in stones up to 3 in. thick, **7/6** each.
- No. 3.** Full Length of Spindles, $20 \times 1\frac{1}{4}$ in., to take in stones up to 4 in thick, **9/-** each.

Improved Tool Grinders.



No. 467. This is an invention for holding Chisels, Plane Irons, etc., while grinding them. When put in the Holder and brought to the right bevel with the adjusting screw, nothing is left to do but to bear it on the Stone, and it will grind all right without further care. Price, 6/- each.

Tool-Grinding Rests.

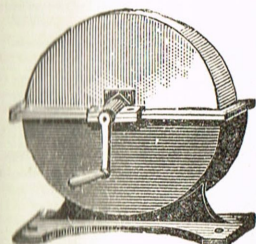


No. 468. Price 4/3 each.

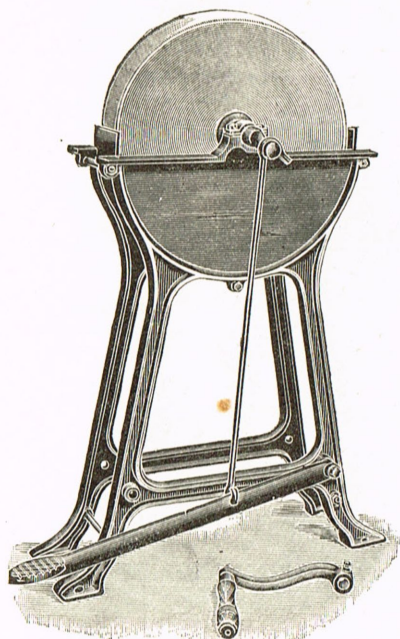
Grindstones—*continued.* (All Carriage Forward.)**Best Grindstones Mounted in Iron Troughs.**

All fitted with Strong Turned Wrought-iron Spindles, and the Stones secured with Side Plates and Lock Nuts. This method is much superior to the ordinary mode of fixing by wedges, as the risk of splitting is avoided. Frames Painted Two Coats. Net and Carriage Forward.

All stones are sent at owners' risk.

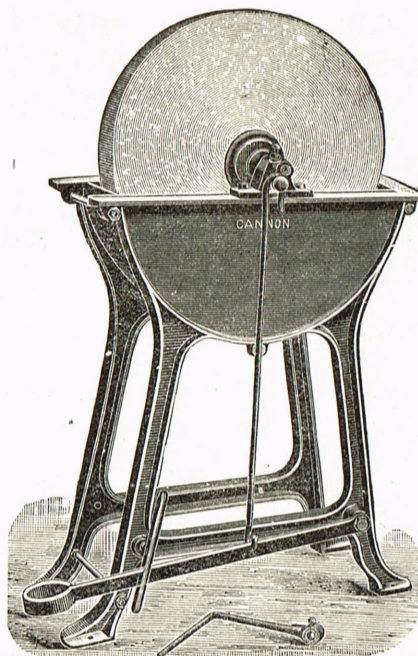
The "Invicta."**No. 469.**

Size of Stone in inches.	No. 469. Without Hood.	No. 470. With Hood.
	s. d.	s. d.
6 × 1½ in.	16 0 each.	20 0 each.
8 „ 1½ „	21 0 „	26 0 „
10 „ 2 „	26 0 „	31 0 „
12 „ 2 „	32 0 „	38 0 „

**No. 471.**

No. 471. The "General" Iron Mounted Grindstone, with Treadle and Handle.

	Without Hood.	With Hood.
12 × 2½	2 12 6	3 0 6
14 „ 2½	2 16 0	3 4 0
16 „ 3	3 0 6	3 8 6
18 „ 3	3 3 0	3 13 0
20 „ 3	3 11 6	4 2 6

**Nos. 472 and 473.**

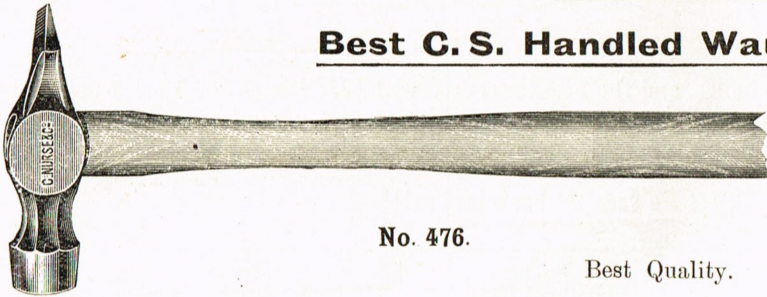
No. 472. The Standard Iron Mounted Grindstone. Fitted with both Treadle and Handle, and with Screwed Plug at bottom of trough to let water off.

	No. 472. With Ordinary Bearings.	No. 473. With Roller Bearings.	No. 473 H. With Hood and Roller Bearings.
Size of Stone.			
18 × 3 in.	£3 17 6	£4 3 6	£4 19 6
20 „ 3 „	4 5 0	4 10 6	5 7 6
22 „ 3½ „	4 16 6	5 2 6	6 0 0
24 „ 3½ „	5 6 6	5 12 6	6 11 6

EXTRAS.

	Sizes, to 20 in.	22 to 24 in.
Fitted with Water Can and Tap	10/6	12/6
Fitted with Fast and Loose Pulleys, instead of Treadle	18/-	20/-

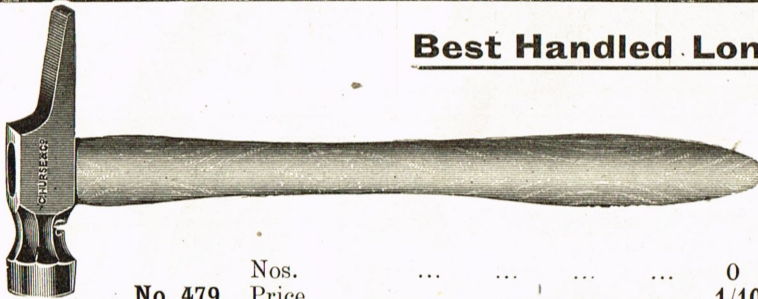
Mounted Grindstones for Export will be taken down and stone and frame packed separately for greater safety.

HAMMERS.**Best C. S. Handled Warrington Hammers.**

No. 476.

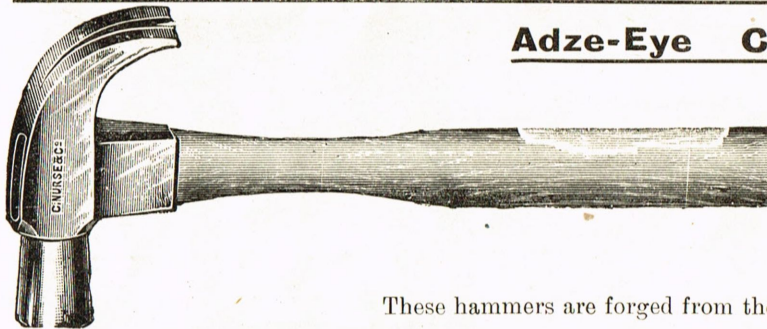
Best Quality.

Nos.	...	...	...	...	0	1	2	3	4	5	6	7	8	9	10	12
No. 476. Price	...	...	...	...	1/10	2/-	2/2	2/4	2/6	2/9	3/-	3/3	3/6	4/-	4/6	5/- each.
„ 478. Heads only	...	...	...	...	—	1/6	1/8	1/10	2/-	2/3	2/6	2/9	3/-	3/6	4/-	4/6 „

Best Handled London Hammers.

No. 479.

Nos.	...	...	...	...	0	1	2	3	4	5	6	7	8
No. 479. Price	...	...	...	...	1/10	2/-	2/2	2/4	2/6	2/9	3/-	3/3	3/6 each.

Adze-Eye Claw Hammers.

	A	B	C	D	E
Weight	11	16	20	26	30 oz.
No 481. Price	3/9	4/3	4/6	5/-	5/6 each.

These hammers are forged from the Best Refined Crucible Cast Steel.

Best Canterbury Hammers.

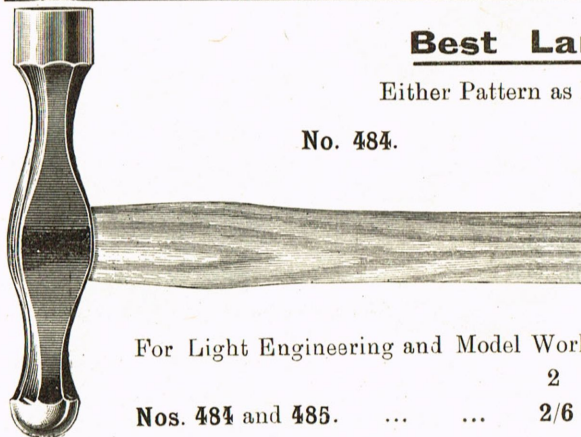
With Polished Oval Handles.

Nos.	...	...	...	1	2	3	4	5	6	7	8
No. 482. Price	...	...	...	2/6	2/9	3/-	3/6	4/-	4/6	5/-	5/9 each.

Best Lancashire Pin Hammers.

Either Pattern as Illustrations, with Best Polished Ash Handles.

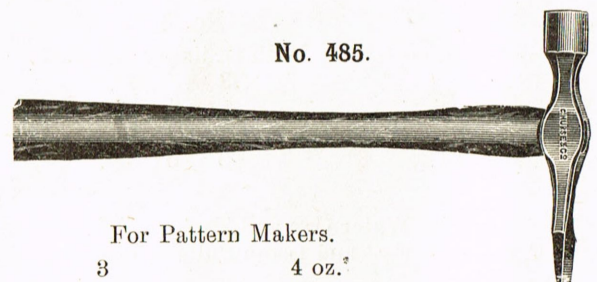
No. 484.



For Light Engineering and Model Work.

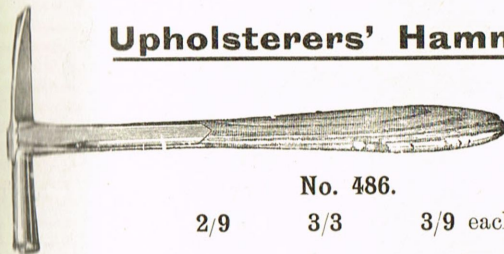
Nos. 484 and 485.	...	...	2
	...	...	2/6

No. 485.



For Pattern Makers.

3	4 oz.
2/6	2/6 each.

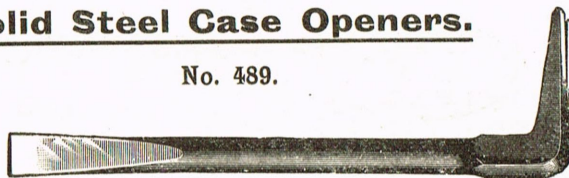
Hammers—continued.**Upholsterers' Hammer.**

No. 486.

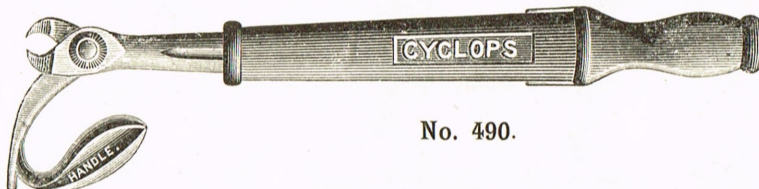
2/9 3/3 3/9 each.

Solid Steel Case Openers.

No. 489.



12	14	16 in.
3/6	4/-	5/- each.

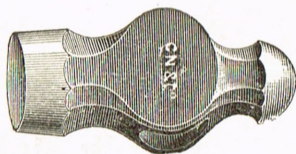
American Make Nail Pullers.

No. 490.

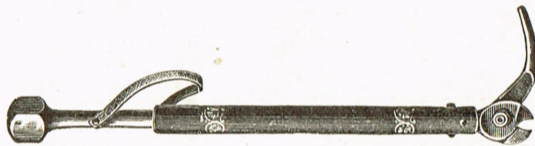
A very powerful Nail Puller, rapid in action, with no springs to get out of order, 9/6 each.



No. 491. Coach Framing Hammer Heads. 2 lb. and over, 2/6 per pound.



No. 492. C.S. Ball Pane Hammer Heads, 6 oz. up to 16 oz., 1/8 each. 1 1/4 lb. and over, 1/8 per lb.



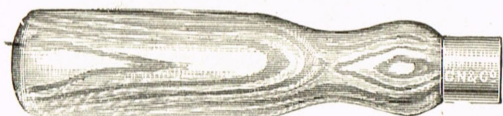
Nos. 494 and 495. Improved Nail Pullers.

No. 494. Best Quality Original English Make. 26 in. when extended. Price, 17/6 each.

No. 495. Ditto, Extra Large size, 36 in. when extended. Price, 29/- each.

HANDLES—Chisel. (Assorted from 7/16 in. up to 1 3/8 in. Ferrules.)

Nos. 497 and 499.



Nos. 498 and 500.



No. 497. Best Quality Round Ash, 3/6 per doz., assorted. Large size, 7/8 in. to 1 in., -/4 1/2 and -/5 each.

No. 498. Best Quality Ash Carvers' Pattern ... 3/6 per doz., assorted. Large size, -/4 1/2 and -/5 each.

„ 499. Ditto Round Boxwood Handles ... 6/- „ „ „ -/8, -/8 1/2 and -/9 each.

„ 500. Ditto Boxwood Carvers' Pattern ... 6/- „ „ „ -/8, -/8 1/2 and -/9 „

No. 505.



No. 508.



No. 504. Best Quality Oval Beechwood Mortise Chisel Handles -/8 each.

„ 505. Ditto Socket Chisel Handles, Ash -/4 „

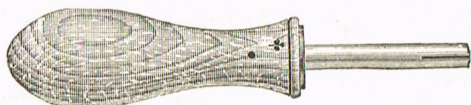
„ 506. Ditto „ „ with strong Iron Ferrule -/7 „

„ 507. Ditto Lignum-Vitæ Socket Chisel Handle -/10 „

„ 508. Ditto Polished Beech Turning Tool Handles, 7 in., -/5; 8 in., -/5 1/2; 9 in., -/6; 10 in., -/6 1/2; 11 in., -/7; 12 in., -/8 each.

HANDLES—Saw.

Nos. 509 and 510.



Nos. 509 and 510.



No. 509. Bow Saw Handles, 10 in. to 14 in. Round Beechwood, 2/9 per pair.
„ 510. Ditto 10 „ „ 14 „ „ Boxwood, 3/3 „

Ditto 16 in., 3/- per pair.
Ditto 16 „ 3/6 „

Handles—various—continued.

Nos. 513 and 515.

- No. 513. Pad Saw Handles, Beechwood, Small ... 1/9 each.
 „ 515. Ditto Rosewood, Small ... 2/3 „
 „ 517. Ditto Best Boxwood, Large ... 3/6 „
 „ 518. Ditto Best Ebony, Large ... 4/6 „



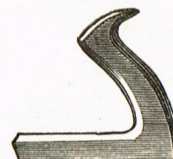
Nos. 514, 516, 517, 518.

- No. 514. Ditto, Large ... 2/4 each.
 „ 516. Ditto „ ... 2/9 „

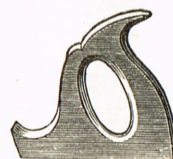
- „ 523. Improved American Brass Socket Saw Screws. No. 1, -/2½ each;
 No. 2, -/3 each; No. 3, Small Eagle, -/4 each; No. 4, Large Eagle,
 -/4½ each.

- „ 526. Jack Plane Handles, Best Quality, -/9 each.

- „ 527. Try Plane Handles, Best Quality, 1/- each.



No. 526.



No. 527.



No. 528.

- No. 528. Hammer Handles, Ash, to 14 in., -/4; 16 in., -/5; 18 in., -/6; 20 in., -/7 each.

- „ 529. Ditto Hickory, to 14 in., -/5; 16 in., -/6; 18 in., -/7; 20 in., -/8 each.



No. 529.

- No. 530. Sledge Hammer Handles, 36 in., 1/6 ea.

- „ 532. Flooring Awl Handles, Ash, -/4, Boxwood, -/6 ea.

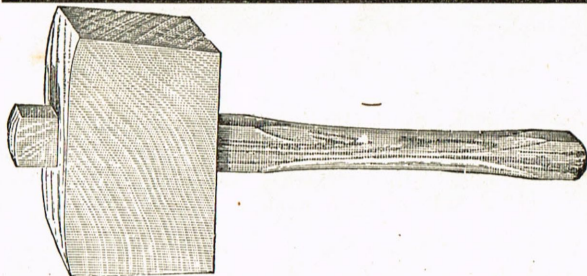
- No. 531. Bradawl Handles, Ash, -/2½, Boxwood, -/3½ ea.

- „ 533. File Handles, -/2½ and -/3 ea.

Beech Joiners' Mallets.

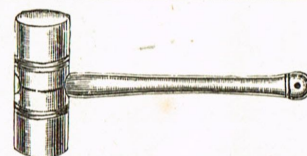
- No. 537. Best Mortised Beech Joiners' Mallets.

4	4½	5	5½	6	6½	7 in.
2/3	2/6	3/-	3/3	3/6	4/3	4/6 each.



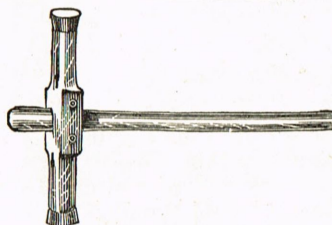
- No. 539. Round Ash Tinmen's Mallets, 2½ in., 1/3 each.

	2	2½	2¾	2¾	3	3½	4 in.
„ 539½.	1/3	1/6	1/9	2/-	2/3	2/6	3/3 each.

Shipwrights' Caulking Mallets and Irons.

- No. 540. Best Lignum-Vitæ Caulking Mallets.

14	15	16 in.
8/6	9/6	10/6 each.



- No. 541. Bright Solid Steel Caulking Irons. Straight, 2/6 each.

- „ 543. Ditto Spike Irons, 2/6 each.

- „ 545. Ditto Sharp Irons, Straight, 2/9 each.

- „ 547. Ditto Straight Jerry Irons, 2/9 each.

- „ 549. Ditto Single Crease Irons, ⅜ in., 3/-; ⅝ in., 3/3; ¾ in., 3/6 each.

- „ 550. Ditto Double Crease Irons, ¼ in., 3/9; ⅝ in., 4/- each.

- „ 552. Ditto Coppering Punches, 2/6 each.

- „ 553. Best Wood Handled Socket Ship Scrapers, 4½ in., 2/3 each.

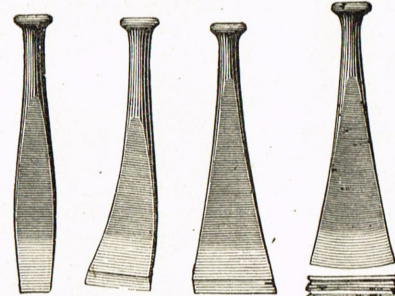
- „ 554. Best Oval Eyed Solid Steel Ship Pin Mauls, 4 lb., 4/-; 5 lb., 5/- each.

- „ 555. Sailors' Palms, 1/6, 2/-, 2/6 each.

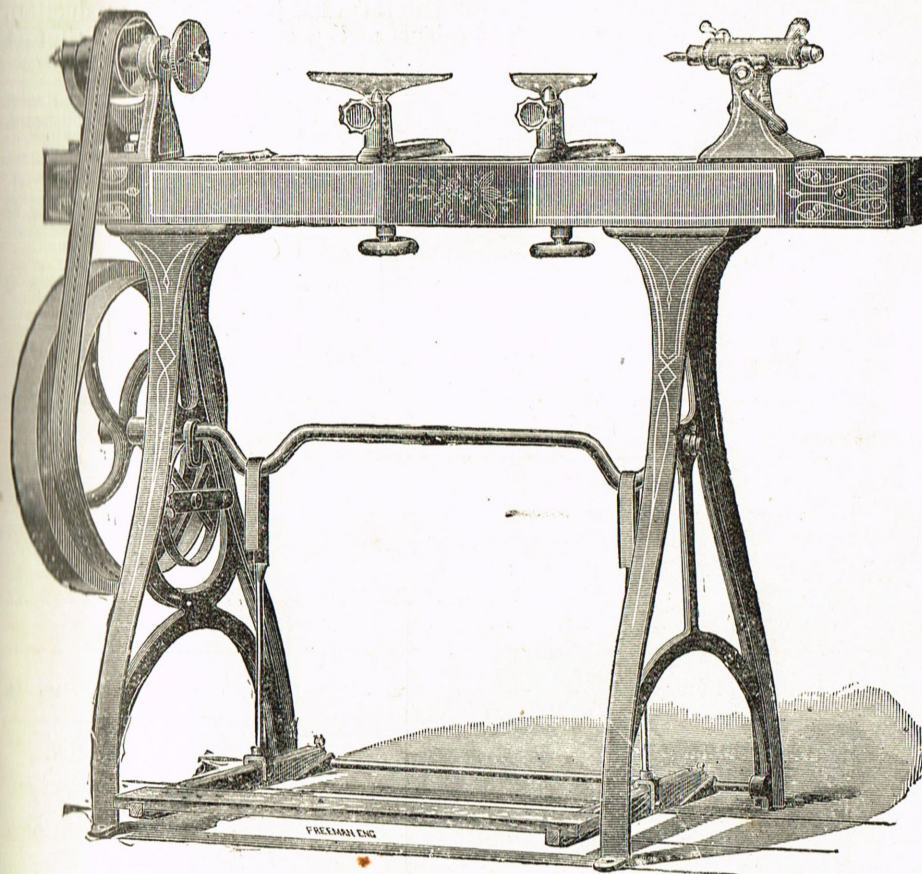
- No. 542. Ditto, Bent, 2/8 each.

- „ 544. Trenail Irons, 2/6 each.

- „ 546. Ditto, Bent, 3/- each.



Prices of other Shipwrights' tools will be sent on receipt of specifications of tools required.

Barnes' Wood-turning Lathe. No. 3 (Improved).

This Lathe is designed for wood turning. It will take in stock 12 in. in diameter and 3 ft. long. The speed can be varied from 1,000 to 2,000 revolutions per minute. It is made entirely of iron and steel, except the bed, which is of wood. The spindle is of steel, fitted up in the best manner. All the bearings are of steel, making them strong, durable, and light-running. The centres are accurately fitted to taper holes. No wrench is required to adjust the tail-stock or tool-rests and sockets, handwheels being used instead. Face-plates, centres, two tool-rests, and holders are included in the price.

Weight, 230 lb.

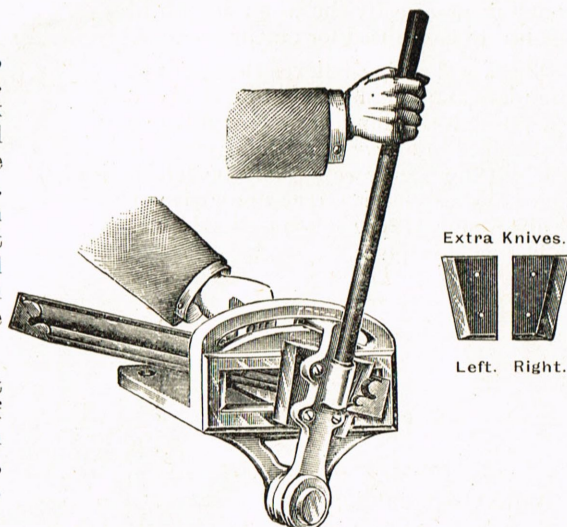
PRICES NET AND CARRIAGE FORWARD

	£	s.	d.
No. 556. Complete, as shown ...	21	0	0
„ 557. Screw Chuck, for wood turning ...	0	17	6
„ 558. Set of 12 Handed Wood Turning Tools ...	0	26	0

The Patent Imperial Mitre Cutting Machine.

There are two reasons for a Mitre Cutting Machine which, whilst perfectly accurate in itself, may yet produce an untrue Mitre. The first is the use of moulding which is not straight on the back from which it takes its bearing or seating in the frame to be operated upon. It is, therefore, primarily necessary to see before use that the moulding is straight on the back. This is a matter for the user. The second is the absolute necessity of the moulding remaining in one position—*i.e.* that it shall not be allowed to move in the slightest degree while being cut. After exhaustive tests it has been found that it is a very difficult matter to hold the moulding so firmly with the one hand that it does not move to a greater or less degree while being cut, although almost imperceptibly.

This difficulty has been overcome in the case of the Patent "Imperial" Mitre Cutter by an attachment arranged at the back of the machine which contains a self-adjusting Screw, fitted with an india-rubber pad, by which means the moulding, when in position, is immediately and firmly held in an immovable position for cutting.



Front View.

No. 561. Size No. 1, to take in Mouldings up to 2½ in wide, 30/6 each; case for packing, -/6 extra.

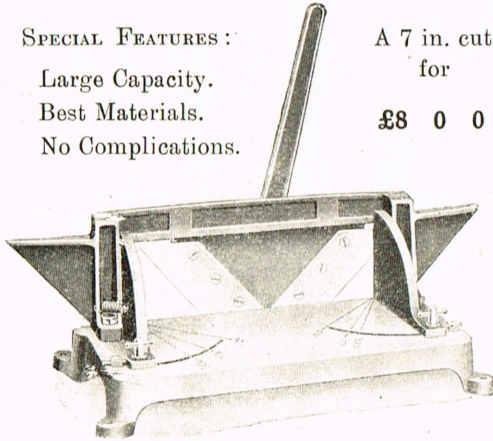
„ 562. „ „ 2, „ „ „ 4½ „ „ 47/6 „ „ „ -/9 „

The "Invicta" Wood Trimmers.**SPECIAL FEATURES :**

Large Capacity.
Best Materials.
No Complications.

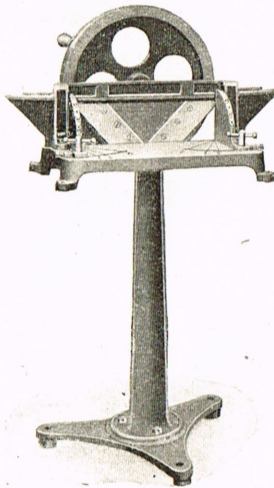
A 7 in. cut
for

£8 0 0



These Trimmers have been brought out to meet the popular demand for an English made Tool at a price within the reach of every Wood-worker. The reception accorded to them has justified their production, and many pattern makers and cabinet makers are now having a Trimmer on every bench.

No. or Name.	Length of Cut.	Height of Cut.	Size of Bed.	Weight.	Price.	Knives, per pair.	Stand Extra.
No. 565. Little Invicta	in. 7	in. 4	in. 18×8	lb. 48	£ s. d. 8 0 0	s. d. 57 6	£ s. d. 2 10 0
No. 566. No. 2 Invicta	9	5	23×10	76	13 5 0	70 0	2 15 0
No. 567. No. 3 Invicta	12	6	28½×12	115	18 10 0	90 0	3 10 0

Improver Type Trimmer.**Prices and Particulars :**

Size	1.	2.	3.
Length of cut	14 ins.	17 ins.	20 ins.
Height of cut	4 ins.	5½ ins.	6 ins.
Size of bed	18×8 ins.	23×10 ins.	28×12 ins.
Knives can be lowered	Once	Twice	Twice
Price	£14 10 0	£19 10 0	£24 0 0
Extra for canting table	£1 8 6	£1 15 0	£2 8 6
Extra for dead length gauge... ..	—	£2 17 6	£2 17 6
Extra for stand as illustration	£2 10 0	£2 15 0	£3 0 0
Extra knives per pair	£2 7 6	£3 10 0	£4 12 6
Nett weight	45 lbs.	90 lbs.	130 lbs.

The Improver type "Gap-Bed" Wood Trimmer is intended for better class work. It is operated by a heavy fly-wheel through a steel rack and pinion, enabling practically the whole length of the bed to be utilised for cutting.

The wheel action relieves the operator from jars and enables the knife easily to cut through the hardest work whilst he is standing in an easy position. On this machine long cuts can easily be taken. The knife carrier is a rectangular frame easily removable permitting the knives to be honed in place.

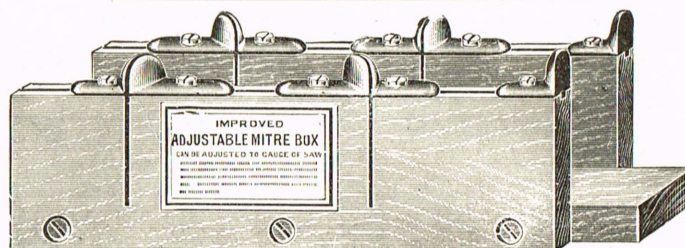
Improved Mitre Boxes.

No. 576.

No. 1.

Will take Mouldings up to 3 in. wide.

Price, 7/6 each.



No. 577.

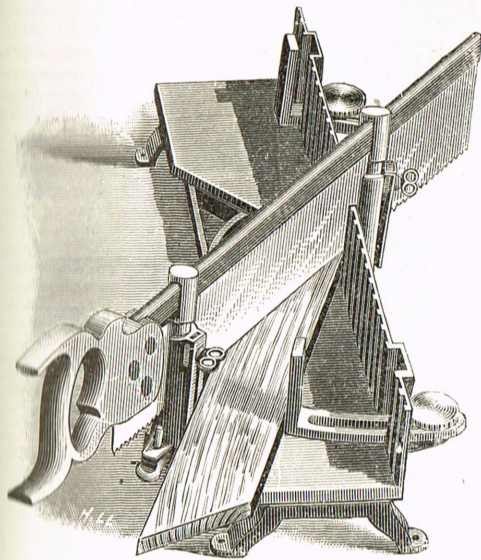
No. 2.

Will take Mouldings up to 4 in. wide.

Price, 9/- each.

These Mitre Boxes are provided with Malleable Iron Saw Guides, easily adjustable to any gauge of Saw Plate.

The Improved New Langdon Mitre Box.



Ordinary Mitre Boxes cut from right angles to 45° inclusive.

The New Langdon Improved cuts by using the Circular Arms or Guides from right angles to 75° on 2½ in wood.

The only Box adjustable for mitreing circular work in patterns, and segments of various kinds.

DIRECTIONS.

The positive angles of the New Langdon are notched in the segment. For intermediate or special angles: find the angle wanted by setting a bevel as required, then move the Saw so that the angle formed by the Saw and the back of the Box, or from the Adjustable Slides, shall conform to the Bevel; fasten the Saw in place by turning down the Screw in the grooved Rest or Gib. This will hold the Saw strongly in place for the time being, and a turn of the Screw backward will place it in order again for the segment angles.

DIMENSIONS AND PRICES WITH SAW. F.O.R.

No.	Cutting at Right Angle.	Cutting at Mitre.	Weight.	Size of Saw.	Price, With Saw.
No. 579.					
26	6¾ in.	4½ in.	10½ lb.	18 × 4 in.	62/6
27	6¾ " "	4½ " "	10½ " "	20 " 4 " "	67/6
32	9¾ " "	6¾ " "	11½ " "	24 " 4 " "	82/6
34	9¾ " "	6¾ " "	12½ " "	28 " 5 " "	95/-

Patent Roller Corner Cramp.

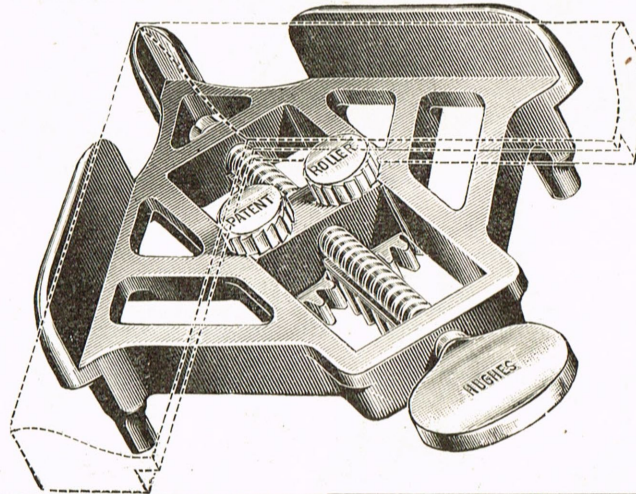
Sizes:

No. 1. Takes Mouldings up to 2¼ in.

Price, 5/6 each.

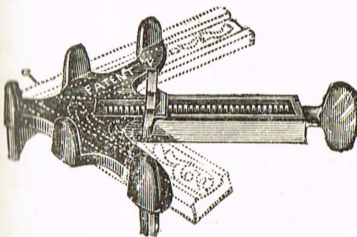
No. 2. Takes Mouldings up to 4 in.

Price, 7/6 each.



No. 583. This improved Cramp bids fair, we think, to displace most of the cramps now on the market. It makes a thoroughly tight joint, the mouldings being drawn firmly together by the action of the ribbed rollers. The drawing shows the mechanism of the Cramp, which is extremely simple and strong.

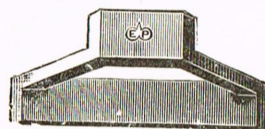
Cramps. Improved Corner



No. 584. Nos. 1 2 3
To take Mouldings 1¼ 2¼ 4 in.
Price ... 2/6 3/- 4/- each.

Brass Mitre Templets.

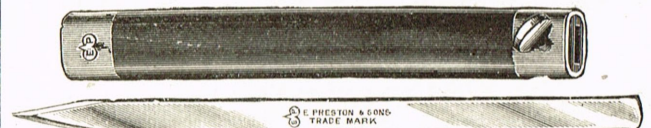
No. 592.



3 4¼ 5¾ in.
3/9 4/9 6/6 each.

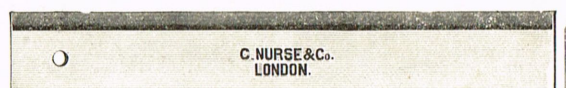
Mount Cutters' Knives.

No. 599.



No. 598. With Rosewood Handle ... 3/6 each.
" 599. Ebony-handled Plated ditto ... 6/6 "
" 600. Blades only ... 1/- "

Mount Cutters' Straight Edges.



No. 602. Chestermans' No. 90 18 24 30 36 in.
" 603. Ditto " 91 1¼ in. × ⅛ in. 4/3 5/3 1½ in. × ⅛ in. 7/9 1¾ in. × ⅛ in. 12/-
" 603. Ditto " 91 1½ " " ¼ " 7/9 11/- 1½ " " ¼ " 13/9 1¾ " " ¼ " 18/-

THE "TRIUMPH" PATENT CENTRE MOTION MORTISING MACHINE.

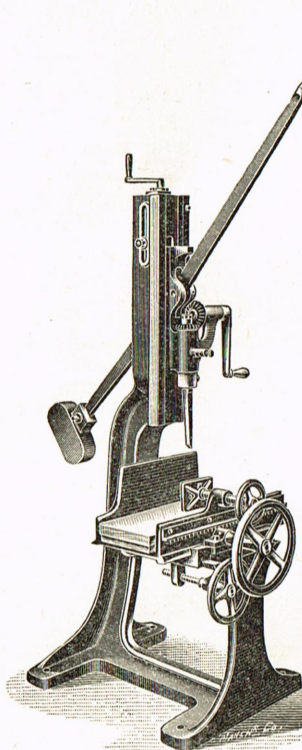
The superiority of our Patent Centre Motion movement is now so well known and recognised that the briefest description is necessary. Previous to our introduction of "Centre Motion," Mortising Machines were worked by side lever and cog-wheel gear, and the troubles caused by breakages of these cogs resulted in considerable annoyance in lost time and expense in renewals.

In "Centre Motion" there are no gears, the wrought iron lever passes through the centre of the chisel slide, and therefore, when mortising all the power is directly over the cutting edge of the chisel; there is no lost motion, and large additional power is obtained.

The new "Triumph" Mortiser is our latest machine of entirely new design, greater strength, the weight being carefully distributed to take all strains; the frame is cast in one piece, the large table has compound movements by hand wheels, and all working parts have adjustments for taking up the wear.

Takes in Wood 11 in. deep, 7 in. wide.

Approximate weight, 4 cwt.



No. 608.

No. 605. Including 8 Best Cast Steel Solid Chisels, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, and 1 in., Core Drifter, Spanner, Price **£38** F.O.R. at Works, Leeds, or **£38 10s.** from London Stock.

No. 606. If with Best Quality Self-coring Chisels, sizes as above, no Core Drifter, Price **£41** F.O.R. at Works, Leeds, or **£41 10s.** from London Stock.

EXTRAS FOR ABOVE.

Boring Apparatus, complete, with $\frac{1}{2}$ in., $\frac{5}{8}$ in. and $\frac{3}{4}$ in. Augers, and $\frac{1}{4}$ and $\frac{5}{8}$ in. Drills, **£6**, Tenoning Tool, **£6 12 6.**

No. 608. Combined Centre Motion Mortising and Boring Machine, as Illustration, complete with 6 Chisels, 2 Core Drifters, 1 Auger each, $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ in., and $\frac{1}{4}$ and $\frac{5}{8}$ in. Cast Steel Drills, F.O.R. at Works, Leeds, **£44**, or from London Stock, **£44 10s.**

Prices of Mortising Chisels.

No. 610. Best Cast Steel Solid Mortise Chisels. (When ordering, send an old chisel tang as pattern.)

$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in.
9/-	9/9	9/9	9/9	9/9	10/6	10/6	11/3	11/3	12/-	13/-	13/6	15/-	16/6	18/-	19/6

Self-Core Lifting Mortising Chisels.



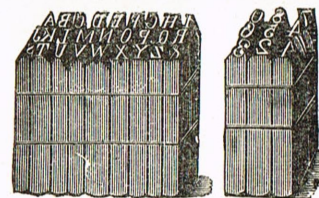
	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in.
No. 611.	11/6	11/6	11/6	12/-	12/-	12/6	12/6	13/6	15/-	16/-	18/-	19/-	20/-	21/-

Name Stamps.

No. 612. Best Quality Name Stamps, sent free by post to any address, $\frac{1}{8}$ in. letters, -/5 per letter. Example—C. NURSE, 2/6. Initials only, -/6 per letter. Example—C.N., 1/-
Above, if made extra strong for stamping metal, -/1 per letter extra.

Best Quality Steel Letters and Figures for Stamping Metal or Wood.

For Wood.					For Metal.						
			27 Letters.	9 Figures.					27 Letters.	9 Figures.	
No. 615.	$\frac{1}{8}$ in.	...	10/-	...	3/6 per set.	13/6	...	4/6 per set.			
„ 616.	$\frac{3}{16}$ „	...	14/6	...	5/- „	21/-	...	7/- „			
„ 617.	$\frac{1}{4}$ „	...	17/6	...	6/- „	28/6	...	9/6 „			
„ 618.	$\frac{5}{16}$ „	...	23/-	...	8/- „	36/-	...	12/- „			
„ 619.	$\frac{3}{8}$ „	...	32/-	...	11/- „	48/-	...	16/- „			



No. 622. Zinc Stencils, Letters, and Figures on Loose Plates.

Size.	Letters. Per Set.	Figures. Per Set.	Size	Letters. Per Set.	Figures. Per Set.
1 in.	3/-	1/-	2 in.	6/-	2/-
$1\frac{1}{2}$ "	4/6	1/6	3 "	11/3	3/9

Stencil Plates cut to any Design.

No. 621. BRUSHES For Stencils, -/9, 1/-, 1/6 each.

Stencil Inks.—No. 624. Black, in Tins, -/9 and 1/3. No. 625. Red or Blue, in Tins, 1/- and 1/6.

OIL CANS.



No. 628.

With Brass bottom
and extra wide mouth.
1/- each.

Bench Oil Cans.

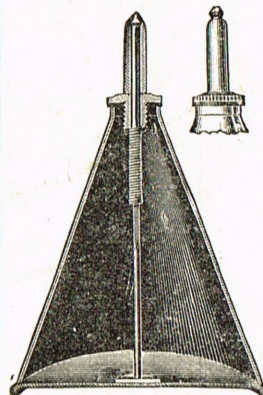
Nos. 626 and 627.



No. 626.

With Tin bottom,
-/9 each.

No. 629.



No. 629.

Patent Nonleak, 1/- ea.

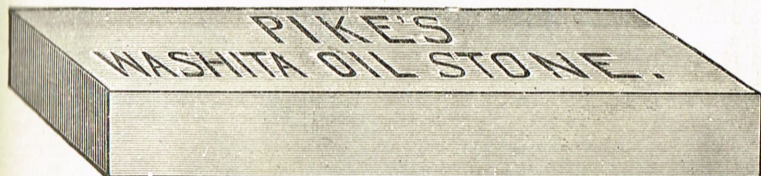
"Stonoil."



No. 638. Non-gumming and Acidless. A perfect Oil for Oilstones, Razor Hones and Strops, Clippers, Guns, Clocks, Type-writers, and all articles requiring an extra fine lubricant.

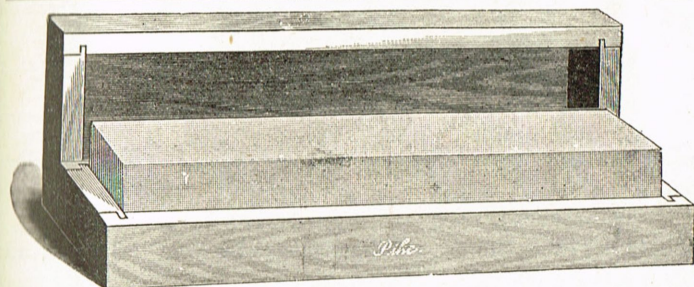
Price, 1/3 2 oz.; 2/6 6 oz. bottles.

Best Washita Oil Stones.



No. 640. Best Lily White Washita Oil Stones. These are the best selection of the Extra Quality. It is perfectly white, of very even texture, free from foreign substances, and perfect in finish. We strongly recommend these Stones as being the most perfect and reliable natural Oil Stones that the world produces.

Approximate Sizes	...	...	...	...	8 × 2 × 1 in.	9 × 2 × 1 in.	10 × 1½ to 1¾ in. square.
Price varies with weight	...	...	...	...	4/6	5/6	6/-, 7/-



No. 641. Best Washita Stones, mounted in handsome Polished Cherry Boxes.

			6	7	8	9	10 in.
Prices	...	...	3/3	3/9	4/3	5/-	5/6 each.

Charnley Forest Stones.

No. 643. This is one of the few Oil Stones quarried in this country. It is a very smooth cutting stone, and is generally liked where a stone of moderate cost is required.

Prices ... 1/3, 1/6, 2/-, 2/6 each.

Hindustan or Canada Oil Stones.

No. 644. These are a very fast cutting but soft stone. They are very low in price, but do good work where a fine finish is not required. Prices, -/10, 1/-, 1/3, 1/6 each.

Gouge Slips.

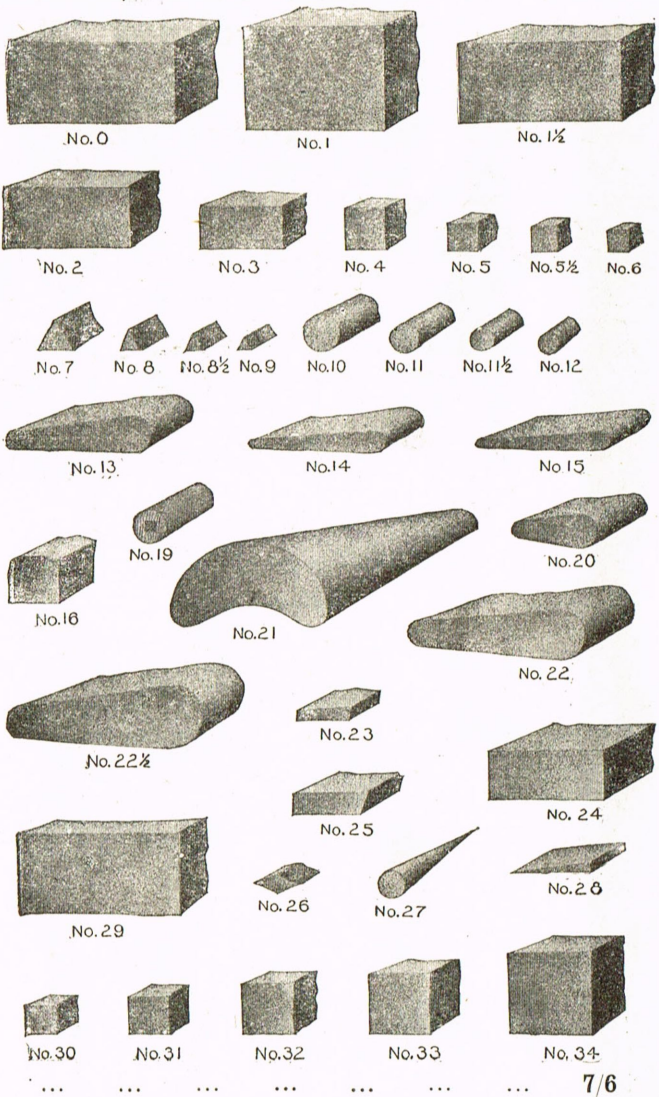


Rounded on both edges so as to suit various sizes of tools.

No. 645. Arkansas	1/6, 2/-, 2/6, 3/-, 3/6, 4/- each.	No. 648. Charnley Forest	...	...	-/8, -/10 each.
" 646. Washita	... 1/-, 1/3, 1/6 "	" 649. Canada	...	...	-/6 "
" 647. Turkey	... 1/-, 1/3 "				

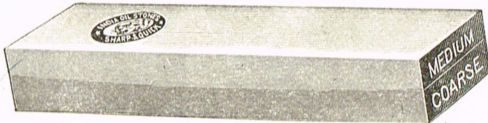
INDIA OIL STONES AND SLIPS.

No.	Shape.	Dimensions.	PRICES, each (Coarse, Medium, or Fine).
650	0	8 × 2 × 1 ...	6/6
651	1	8 × 1 3/4 × 1 1/4 ...	7/3
651 1/2	1 1/2	7 × 2 × 1 ...	5/6
652	2	6 × 1 1/2 × 3/4 ...	3/9
653	3	4 × 1 × 1/2 ...	2/3
654	4	4 × 1 × 1/2 ...	1/10
655	5	4 × 1 × 1/2 ...	1/10
656	6	4 × 1 × 1/2 ...	1/10
657	7	4 × 1 × 1/2 ...	2/4
658	8	4 × 1 × 1/2 ...	2/4
659	9	4 × 1 × 1/2 ...	2/4
660	10	4 × 1 × 1/2 ...	2/7
661	11	4 × 1 × 1/2 ...	2/7
662	12	4 × 1 × 1/2 ...	2/7
663	13	4 1/2 × 1 3/4 × 1/2 × 3/16 ...	2/9
664	14	4 1/2 × 1 3/4 × 1/2 × 1/8 ...	2/9
665	15	4 1/2 × 1 3/4 × 1/2 × 1/16 ...	2/9
666	16	8 × 1 × 1/2 ...	4/0
669	19	Engravers' pencils ...	2/4
Fine one end, medium the other.			
670	20	4 × 1 × 7/16 × 3/16 ...	2/4
671	21	Special gouge slip, 6 × 2 × 1 × 3/8 × 3/16 ...	5/6
673	22	4 1/2 × 2 1/8 × 3/8 × 5/16 ...	3/8
674	22 1/2	6 × 2 1/2 × 3/8 × 5/16 ...	4/6
675	23	3 1/2 × 1 3/4 × 1/2 × 3/16 ...	1/10
676	24	4 1/2 × 1 3/4 × 1/2 × 3/16 ...	3/8
677	25	4 1/2 × 1 × 5/16 reamer stone ...	1/10
678	26	4 × 1 × 1/2 × 3/16 ...	3/3
679	27	Points, 3 × 1 × 1/2 ...	3/3
680	28	Knife Blade, 4 × 1 × 1/8 ...	2/7
681	29	6 × 2 × 1 ...	4/6
682	30	6 × 2 × 1 ...	2/7
683	31	6 × 2 × 1 ...	2/7
684	32	6 × 2 × 1 ...	2/7
685	33	6 × 2 × 1 ...	3/1
686	34	6 × 1 × 1 ...	3/1
687	35	Universal slip ...	9/3



No. 688. 1 Set (4) Carvers' Slips, 2 1/4 × 7/8 × 3/16 in

Combination Oil Stones.

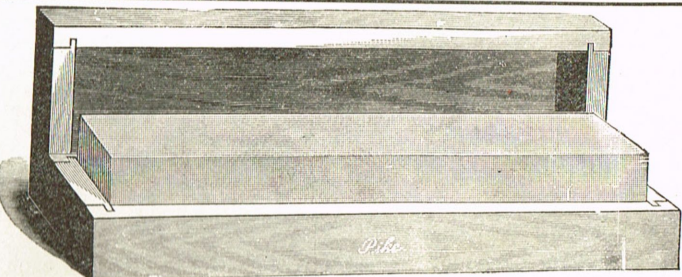


Nos. 693-697.

No.	Shape.	Dimensions in In.	Price.
No. 693.	...	0 8 × 2 × 1	8/9
694.	...	1 8 × 1 3/4 × 1 1/4	9/3
695.	...	1 1/2 7 × 2 × 1	7/3

Shapes, 0, 1, 1 1/2, and 2, mounted in polished wooden boxes, 2/3 each extra.
Shapes, 0, 2, and 29, in iron boxes, 4/6 each extra.

No.	Shape.	Dimensions in In.	Price.
No. 696.	...	2 6 × 1 3/8 × 3/4	5/-
697.	...	29 6 × 2 × 1	6/6



Mounted Arkansas Oil Stones.

No. 699. Arkansas Oil Stones mounted in Polished Mahogany Boxes.

Average size of Stones	3 1/2 × 1	4 × 1 1/2	5 × 2	6 × 2	8 × 2 in.
	3/-	4/6	7/-	8/6	10/6

No. 700. Sets of 4 Arkansas Carving Tool Slips, 4/6 per set.

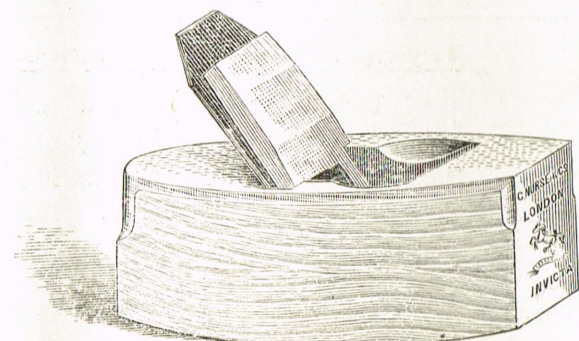
C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17



PLANES—Best.



We have been Plane Manufacturers for over seventy years, and our "Invicta" Brand is universally well known, and is a guarantee of very Best Materials and Workmanship. We hold a very large stock of well-seasoned Beechwood, and no pains will be spared to maintain and extend the reputation of these goods. Manufactured at our Workshops: Colworth Grove, York Street, Walworth Road, London, S.E. 17.



Nos. 780-784.

No. 780. Smooth Planes, $1\frac{1}{2}$, $1\frac{5}{8}$, $1\frac{3}{4}$,

or 2 in.

„ 781. Smooth Planes, $2\frac{1}{8}$ in. ...

„ 782. „ „ $2\frac{1}{4}$ in. ...

„ 783. „ „ $2\frac{3}{8}$ in. ...

„ 784. „ „ $2\frac{1}{2}$ in. ...

C.S. Single Irons.	C.S. Double Irons.	C.S. Parallel Double Irons.
--------------------------	--------------------------	--------------------------------------

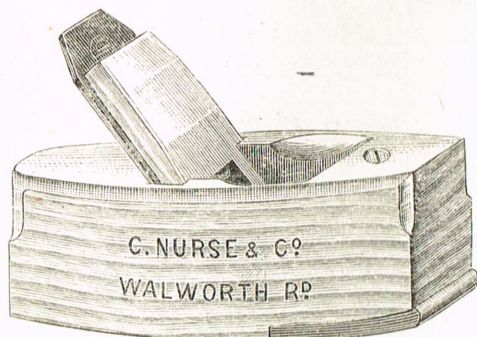
6/6	10/-	10/6
-----	------	------

—	10/6	11/0
---	------	------

—	11/-	11/6
---	------	------

—	12/6	13/-
---	------	------

—	13/6	14/-
---	------	------

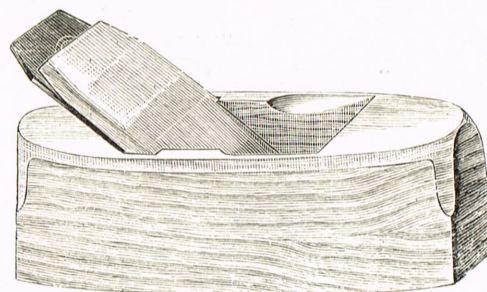


No. 785.

No. 785. Improved Iron Fronted Smooth Planes with $2\frac{1}{4}$ in. Double Parallel Irons, 24/-

„ 786. Ditto, with full Iron Sole, 30/-

„ 786½. Smooth Planes with Steel Face—screwed on. 2 in., 23/-; $2\frac{1}{4}$ in., 26/-



No. 787.

No. 787. Extra Low Pitch Boxmakers' Smooth Planes with 2 in. Single Iron, and rounded at both ends. With Taper Iron, 8/6; Parallel Iron, 9/-

C.S. Single Irons.	C.S. Double Irons.	C.S. Parallel Double Irons.
--------------------------	--------------------------	--------------------------------------

6/6	—	—
-----	---	---

—	20/-	20/6
---	------	------

—	20/-	20/6
---	------	------

8/6	—	—
-----	---	---

—	11/-	11/6
---	------	------

—	22/-	22/6
---	------	------

—	—	25/-
---	---	------

—	—	27/-
---	---	------

—	—	33/6
---	---	------

—	—	17/-
---	---	------

—	—	20/-
---	---	------

No. 788. Mitre Shooting Planes, $1\frac{1}{2}$, $1\frac{3}{4}$, or 2 in. ...

„ 789. Forkstaff or Hollow Smooth, 2 in. ...

„ 790. Round Faced Smooths, 2 in. ...

„ 791. Tooothing Planes, 2 in. ...

„ 793. Compass Smooths, 2 in. ...

„ 795. „ „ Best Screw Stop ...

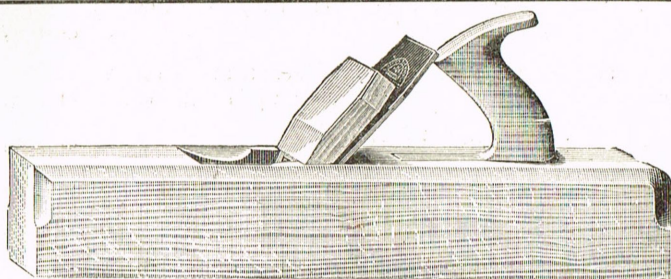
„ 796. Skew Mouthed Badger, $2\frac{1}{4}$ in. ...

„ 797. „ „ „ Box Slipped ...

„ 798. „ „ „ „ Shoulder Boxed ...

„ 800. Panel Planes, $15 \times 2\frac{1}{2}$ in. ...

„ 801. „ Slipped ...



Nos. 802 and 803.

Jack Planes.

	12 x $1\frac{3}{4}$	14 x 2	17 x $2\frac{1}{4}$ in.
No. 802. C.S. Double Irons	11/6	12/6	13/6 each.
„ 803. „ Parallel Irons	12/-	13/-	14/- „

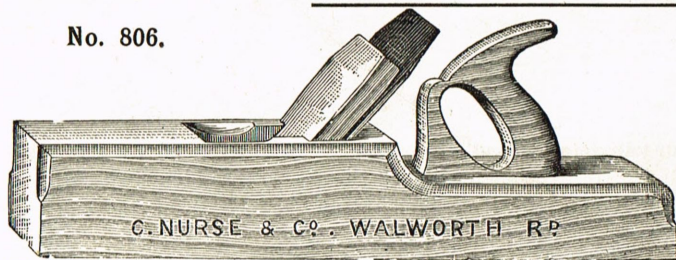
No. 804. With Try Plane.
Handles

12/3	13/3	14/3 „
------	------	--------

Fitted with Boxwood Striking Knob, -/6 each extra.

Nurse's London-made Planes—continued.

No. 806.

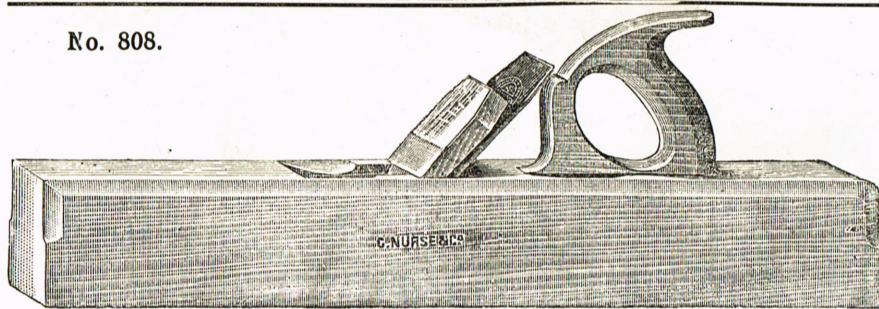
**Technical Jack Plane.**

Special pattern, with striking knob, as supplied to
Technical Schools throughout the country.

No. 805. 14 in. long × 2 in., Double Irons, 15/- each.

,, 806. Ditto, with Closed Toat as Illustration, 15/3 ,,

No. 808.

**Trying and Jointer Planes.**

All Trying and Jointer Planes are
fitted with Best C.S. Double Irons.

No. 808. Try Planes, 22 × 2½ in., 18/-

,, 809. ,, ,, 24 ,, 2½ ,, 18/6

,, 810. Jointer Planes—
26 × 2½ in., 20/6

,, 811. ,, ,, 28 ,, 2¾ ,, 21/6

Try Planes if made with Sunk Handles and fitted with Striking Knob, 2/- extra.

Air-Tight Case Planes.

No. 816. Set of 4 Single, 57/6.

No. 817. Set of 3 Double, 72/6.

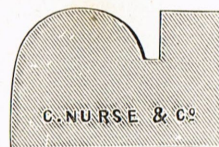
No. 818. Hook Joint Plane, Dovetail Boxed, with long Fence, 42/6.

Astragal Planes. No. 819.

¼ up to ⅝ in., 6/6; ¾ in., 7/-;
1 in., 7/6; 1 in., 8/- each.



No. 830.

Bead Planes.

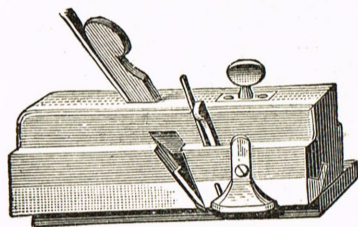
No. 821.

No. 829. Two-Reed Planes 10/- 10/- 10/- ea.
,, 830. Three-Reed Planes 12/- 12/- 12/- ,,
,, 831. Four-Reed Planes 16/- 16/- 16/- ,,

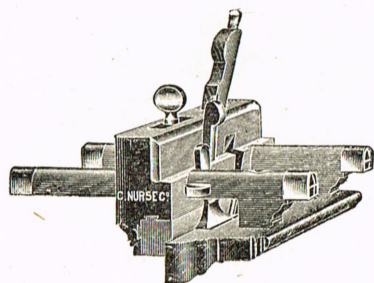
No. 825. Sets of 8 Beads, Single Boxed, ⅛ to 1 in., 57/-; Ditto, Slipped to ½ in., 61/-; Ditto, Doubled Boxed, 70/- ea.
,, 828. Centre Beads or Single Reeds, ⅛ to ⅝ in., 8/-; ½ in., 8/6; ⅝ in., 9/-; ¾ in., 10/-; 7/8 in., 10/6; 1 in., 11/- ea.

	⅛ to ⅝	¾	7/8	1 in.
No. 821. Single Boxed Beads	6/6	7/-	8/-	8/6 each.
,, 822. Slipped Bead Planes	7/6	8/-	9/-	9/6 ,,

Beads Double Boxed, 1/6 each extra.

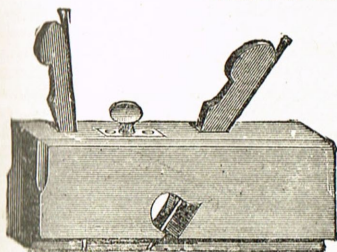
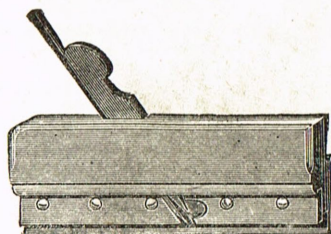
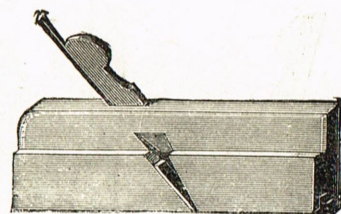


No. 838.

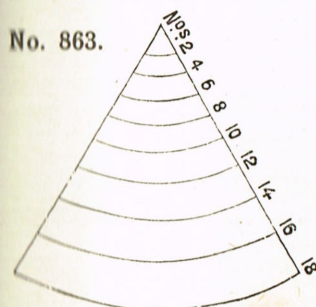


No. 843.

No. 834. Standing Fillisters or Check Planes to ⅝ in. ...	6/3 ea.
,, 835. Standing Fillisters, ¾ in. ...	6/9 ,,
,, 836. Fillisters Moving, Boxed Edge with Tooth and Slip Stop and Mortised Tooth...	17/- ,,
,, 837. Fillisters Moving, Boxed Edge with Best Screw Stop and Mortised Tooth ...	22/6 ,,
,, 838. Fillisters Moving, Shoulder Boxed with Best Screw Stop and Mortised Tooth ...	26/6 ,,
,, 839. Fillisters Moving, Dovetail Boxed, Best Stop, 3 Slides to Fence, and Mortised Tooth...	38/6 ,,
,, 841. Fillisters, Sash, Plough Stop, Shoulder Boxed and Ferruled both ends, with tooth to throw the shavings off the bench	42/- ,,
,, 843. Ditto, ditto, Double Dovetail Boxed ...	55/- ,,
,, 844. Ditto, ditto, with Solid Boxwood Fence ...	60/- ,,
,, 845. Ditto, ditto, Solid Handle and Double Dovetailed ...	70/- ,,
,, 847. Ditto, ditto, Solid Handle, Double Dovetail, Boxwood Screw Stems, and Solid Boxwood Fence ...	85/- ,,

Nurse's London-made Planes—continued.**No. 849.****No. 850.**

- No. 849.** Grooving Dado with Screw Stop, $\frac{1}{4}$ in., 17/-; $\frac{3}{8}$ in., 17/-; $\frac{1}{2}$ in., 17/-; $\frac{5}{8}$ in., 17/-; $\frac{3}{4}$ in., 17/-; $\frac{7}{8}$ in., 17/9; 1 in., 18/6
No. 850. Grooving Match, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, or $\frac{3}{4}$ in., 14/6; $\frac{7}{8}$ in., 15/-; 1 in., per pair, 15/6
No. 851. Ditto, Double ended Match, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in., 14/6; $\frac{7}{8}$ in., 15/-; 1 in., 15/6
No. 852. Ditto, Moving Match with 3 pairs Iron to work, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in., per pair, 34/6
No. 853. Ditto, Moving Match with 3 pairs Irons to work, $\frac{3}{4}$, $\frac{7}{8}$, 1 in., per pair, 34/6

**No. 863.**

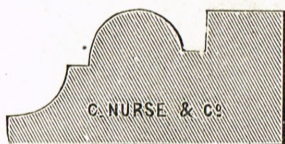
No. 863. Hollows and Rounds, Skew Mouth, per pair to No. 12 ... 12/6

No. 864. Ditto, ditto, Nos. 13 to 18 ... 13/-

No. 865. Ditto, ditto, Joiner's half set of 9 pairs... 117/6

No. 866. Ditto, ditto, Joiner's set of 18 pairs ... 235/-

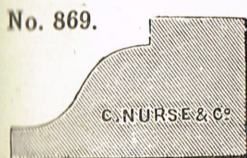
Sections of Hollows and Rounds.

**No. 868.** $\frac{3}{4}$ in. Neck Moulding.

Neck Moulding Planes, Boxed. Up to--

$\frac{5}{8}$ 8/6 $\frac{3}{4}$ 9/- $\frac{7}{8}$ 9/6 1 in. 10/6

Neck Moulding Planes work on from $\frac{1}{4}$ in. to $\frac{3}{8}$ in. more than down according to size.

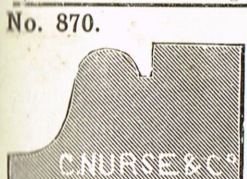
**No. 869.**

Ogee Common. Up to--

$\frac{5}{8}$ 6/- $\frac{3}{4}$ 6/9 $\frac{7}{8}$ 7/6 1 8/3 $1\frac{1}{8}$ 9/- $1\frac{1}{4}$ 9/9 $1\frac{3}{8}$ 10/6 $1\frac{1}{2}$ 11/6

Common Ogees work on and down the same.

$\frac{1}{4}$ in. Ogee Moulding.

**No. 870.**

Quirk Ogee. Up to--

$\frac{5}{8}$ 9/- $\frac{3}{4}$ 9/- $\frac{7}{8}$ 9/9 1 10/6 $1\frac{1}{8}$ 11/6 $1\frac{1}{4}$ 12/3

Quirk Ogees work on $\frac{1}{4}$ in. to $\frac{1}{2}$ in. more than down according to size.

$\frac{3}{4}$ in. Quirk Ogee.

**No. 873.**

Quirk Ogee and Astragal.

Up to--

$\frac{1}{2}$ 11/- $\frac{5}{8}$ 11/6 $\frac{3}{4}$ 12/- $\frac{7}{8}$ 12/6 1 in. 13/-

Quirk Ogee and Astragals work on from $\frac{1}{4}$ in. to $\frac{5}{8}$ in. more than down according to size.

$\frac{3}{4}$ in. Quirk Ogee and Astragal.



Lamb's Tongue

No. 874. Lamb's Tongue Sash and Templets, per pair to $\frac{5}{8}$, $1\frac{1}{2}$, $1\frac{3}{4}$, or 2 in. ... 20/-

„ **875.** Ditto, ditto, $\frac{3}{4} \times 2$ in. bar 21/-

„ **877.** Ditto, Shop Front Plane and Templet, $\frac{7}{8}$ in. ... 15/-

„ **878.** ditto 1 in. 16/-

„ **879.** ditto $1\frac{1}{8}$ „ 17/-

„ **880.** ditto $1\frac{1}{4}$ „ 18/-

„ **881.** ditto $1\frac{3}{8}$ „ 19/-

„ **882.** ditto $1\frac{1}{2}$ „ 21/-

„ **883.** Lamb's Tongue Sash Routers in Iron ... 10/-

Ovolo Sash, $1\frac{1}{2} \times \frac{5}{8}$ in.

No. 884. Ovolo Sash, per pair, and Templets, $1\frac{1}{2}$ in. $\times \frac{5}{8}$ in. ... 18/6

„ **885.** Ditto ditto, $1\frac{3}{4} \times \frac{5}{8}$ in. 18/6

„ **886.** Ditto ditto, $2 \times \frac{5}{8}$ „ 18/6

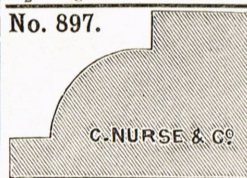
„ **887.** Ditto ditto, $2 \times \frac{3}{4}$ „ 19/6

„ **888.** Ditto ditto, with Improved Brass End Templets, per pair, to $1\frac{1}{2} \times \frac{5}{8}$ in. ... 28/-

„ **889.** Ditto ditto, $1\frac{3}{4} \times \frac{5}{8}$ in. 28/-

„ **890.** Ditto ditto, $2 \times \frac{5}{8}$ „ 28/-

„ **893.** Ovolo Sash Routers, in Iron 10/-

**No. 897.**

$\frac{3}{4}$ in. Common Ovolo.

No. 897. Common Ovulos. To--

$\frac{5}{8}$ 6/- $\frac{3}{4}$ 6/9 $\frac{7}{8}$ 7/6 1 8/3 $1\frac{1}{8}$ 9/- $1\frac{1}{4}$ 9/9 $1\frac{3}{8}$ 10/6 $1\frac{1}{2}$ 11/6

No. 898. Quirk Ovulos.

9/- 9/- 9/9 10/6 11/3 12/- 12/9 13/6

Common Ovulos work on and down the same. Quirk Ovulos stick on about $\frac{1}{2}$ in. more than down.

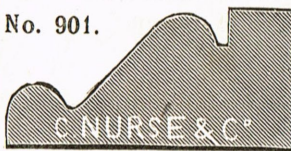


Scotia Plane

No. 899. Scotia Planes.

$\frac{1}{2}$ 6/6 $\frac{5}{8}$ 6/6 $\frac{3}{4}$ 7/3 $\frac{7}{8}$ 8/- 1 in. 8/9

Special Planes made to Drawings in a few hours.

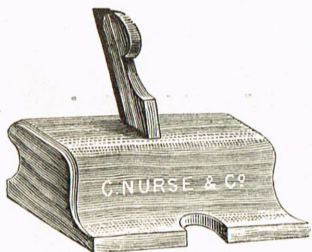
**No. 901.**

$\frac{3}{4}$ in. Quirk Ovolo and Bead.

No. 901. Quirk Ovolo and Bead. Up to--

$\frac{5}{8}$ 10/6 $\frac{3}{4}$ 10/6 $\frac{7}{8}$ 11/3 1 in. 12/-

Quirk Ovulos and Beads stick on half as far again as down.

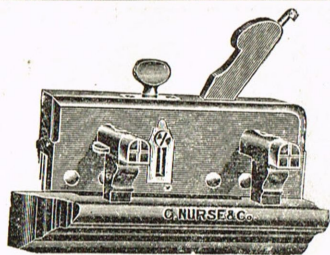


Nos. 904-905.

No. 904. Old Woman's Tooth, 5/6

No. 905. Ditto, ditto, small size, with Iron, 5/-

No. 909. Pipe Light or Curled Shaving Plane, 10/6



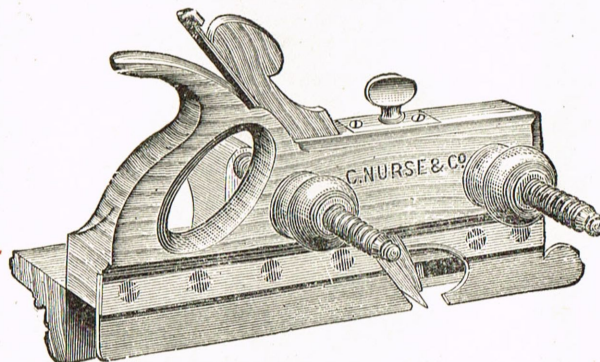
No. 910. Best Plough.

No. 910. Ploughs, Best Screw Stop, 8 Irons, ferruled Stems, with Screw at side. Best work only, 50/-

No. 911. Ditto, with long Skate End, Fore Plate, 52/6

No. 912. Ditto, with Boxwood Screw Stems, 70/-

No. 913. Ditto, with Best Solid Handle, 70/-

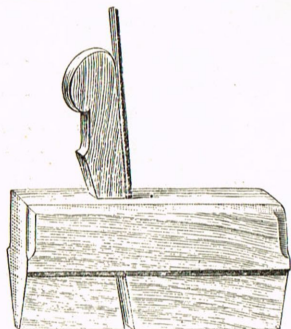


No. 914. Best Handled Plough.

No. 914. Ditto, with Boxwood Screw Stems, and with Boxwood Fence, 85/-

No. 916. Rabbet Planes, Square Mouthed, to 1 1/4 in., 6/-; 1 1/2 in., 7/-

No. 917. Ditto, Skew Mouth, 1/2 to 1 1/4 in., 6/3; 1 1/2 in., 7/3; 1 3/4 in., 8/-; 2 in., 8/9.



No. 921.

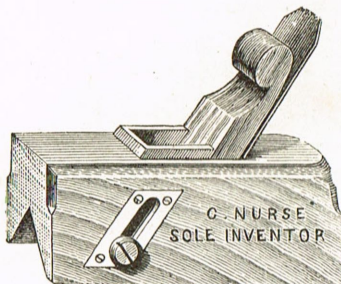
No. 921. Side Rabbets, 13/6 per pair.

No. 922. Side Rounds, 12/- per pair.

No. 923. Side Snipes, 17/6 per pair. Ditto, Shoulder Boxed, 23/6.

No. 924. Snipe Bills, 14/- per pair. Ditto, Shoulder Boxed, 18/6.

No. 925. Stair Nosing Planes, 3/4 in., 8/6; 7/8 in., 8/6; 1 in., 8/9; 1 1/8 in., 9/6; 1 1/4 in., 10/3; 1 3/8 in., 11/-; 1 1/2 in., 12/-

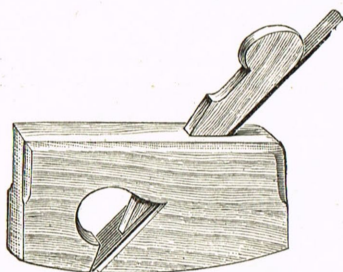


No. 926.

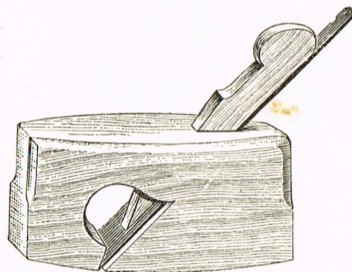
No. 926.
Stop Chamfer Planes. C. Nurse's Original, 16/-

Beechwood Thumb Planes.

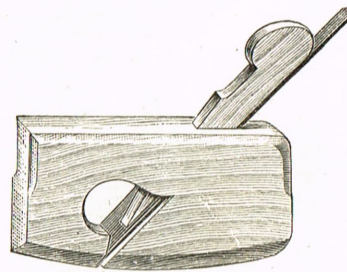
These Planes are 3 1/2 in. long.



No. 935. Compass Rabbet.



No. 937. Compass Rabbet circled on sides and face.



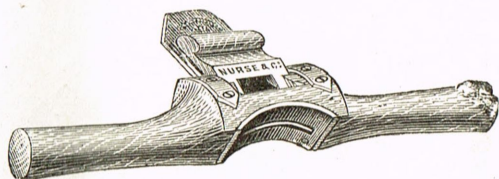
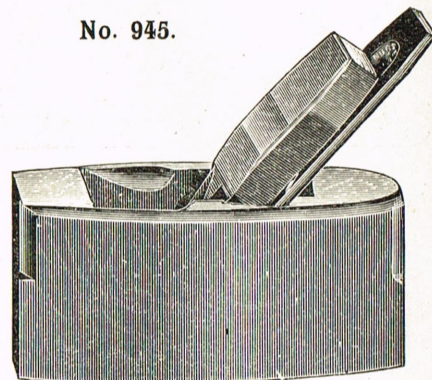
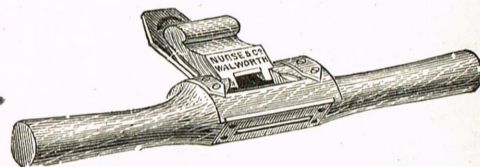
No. 942. Compass Side Round.

		1	1 1/8	1 1/4	1 1/2 in.
No. 933. Thumb Smooth Planes—Single Iron	...	4/6	4/6	5/-	5/- each.
„ 934. Thumb Rebate Planes—Square Mouth	...	4/6	4/6	4/6	1 in. each.
„ 935. Ditto, Compassed on Face, all sizes to 1 in.	...	...	...	...	5/-
„ 936. Thumb Rebate Planes, circular on one side, right and left to 1 in.	...	...	...	...	11/- per pair.
„ 937. Ditto, ditto, circular both sides, to 1 in.	...	...	...	...	6/- each.
„ 938. Ditto, Compassed on Face to 1 in., and circular both sides	...	...	...	...	6/-
„ 939. Ditto, Side Rebate	...	...	...	...	10/- per pair.
„ 940. Thumb Hollow and Round Planes, Square Mouth to No. 12	...	...	...	...	9/-
„ 941. Thumb Side Round Planes	...	...	...	...	10/-
„ 942. Ditto, ditto, Compassed on Face	...	...	...	...	11/-

Nurse's London-made Planes—continued.**Coachmakers' Planes.**

No. 945.	Smoothing Planes, $1\frac{1}{8}$ in. or $1\frac{3}{4}$ in.,	10/-	Parallel Irons,	10/6 each.
" 946.	Compass " " "	11/-	" " "	11/6 "
" 947.	Concave " " "	11/-	" " "	11/6 "
" 948.	Coach Door Smooths, $1\frac{3}{4}$ in.,	...	...	12/6 "
" 949.	Ditto, if Plated at Mouth	...	...	17/6 "
" 950.	Coach Door Jack, 2 in.,	17/-		
" 951.	Ditto, if Plated at Mouth, 2 in.,	22/-		
" 952.	T Rabbet Planes, straight, $1\frac{1}{2}$ in., $1\frac{5}{8}$ in., $1\frac{3}{4}$ in.,	10/-; 10/6; 11/-;		
	2 in.,	11/6.		
" 953.	T Rabbet Planes, Compass, $1\frac{1}{2}$ in., $1\frac{5}{8}$ in., $1\frac{3}{4}$ in.,	10/6; 11/-; 11/6;		
	2 in.,	12/-		
" 954.	T Rabbet Planes, Compass, with Handle, $1\frac{1}{2}$, $1\frac{5}{8}$, or $1\frac{3}{4}$ in.,	12/6.		

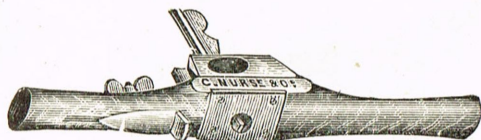
No. 945.

**Coachmakers' Routers, etc.**

No. 955.

No. 956.

No. 955.	Jarvis Plane, Brass or Iron Face, with Brass Straps	...	...	...	...	...	26/6 each.
" 956.	Nelson Plane, Iron Face with Brass Straps	...	...	...	...	...	22/6 "
" 957.	Beading Routers, with 1 pair of Irons, any size from $\frac{1}{8}$ in. to $\frac{5}{8}$ in.,	19/6.	Extra Irons for ditto,	2/6	per pair.		
" 958.	Boxing Routers, with improved Eye Hole, including Iron, to $\frac{3}{4}$ in., $\frac{7}{8}$ in., 1 in.,	10/6; 11/-; 11/6.	Extra Irons				
	for ditto, $\frac{1}{2}$ each up to $\frac{3}{4}$ in.; ditto, $\frac{7}{8}$ in. and 1 in.,	1/6 each.					
No. 959.	Improved Scratch Tool with Sliding Fence	...	...	...	...	...	19/6 each.
" 960.	" Square Tools or Routers	...	...	...	...	...	18/6 "
" 961.	" Rounding Tools or Routers	...	...	...	...	...	18/6 "



No. 962.



No. 963.

No. 962.	Fence Grooving Routers, Plated, with Thumbscrew	...	...	...	...	...	40/- per pair.
" 963.	Jiggers or Side Routers	...	...	...	...	...	30/- each.
" 964.	Williams' Pattern Improved Jiggers or Side Routers	...	...	...	...	...	30/- "
" 965.	Double Ended Coach Match Planes, $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{5}{8}$ in., or $\frac{3}{4}$ in.,	14/6; $\frac{7}{8}$ in., 15/-; 1 in., 15/6.					
" 966.	Coachmakers' Horizontal Steel Squares, Gun Metal Handles	...	...	...	...	...	12/- "
" 967.	" T Bevels, 12 in. Blades	...	...	...	...	...	6/9 "
" 968.	" Spider Mortise Bevels, with 3 Blades	...	...	...	...	...	8/- "
" 969.	" Mortise Bevels	...	...	...	...	...	5/- "

**Motor Body Makers' Jigger or Grooving Router Iron.**

This is made of steel, hardened and tempered, and is a handy little tool for cutting grooves for metal panels. It has four screw holes, and may be screwed to any wooden holder or handle by the user.

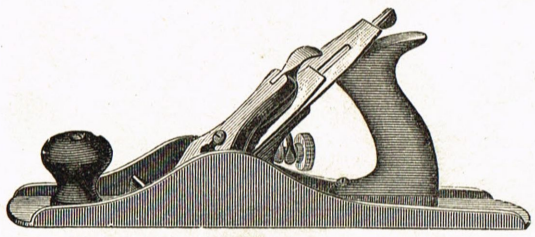
The improvement lies in the longitudinal slot, which gives clearance by permitting the shavings to get clear away, thereby preventing choking and consequent breaking.

No. 970. Price, 8/6 each.

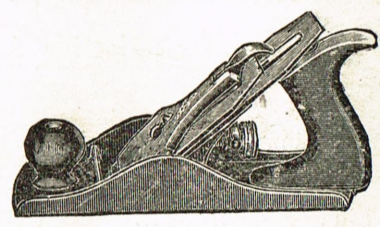
N.B.—Special Planes made to Drawings or Patterns.

Planes—American Iron, Stanley Co.'s Make.

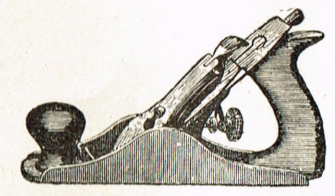
Bailey's Patent Adjustable Planes, fitted with Stanley's Patent Lateral Adjustment.



No. 6A.



No. 4 1/2 A.



No. 3A.

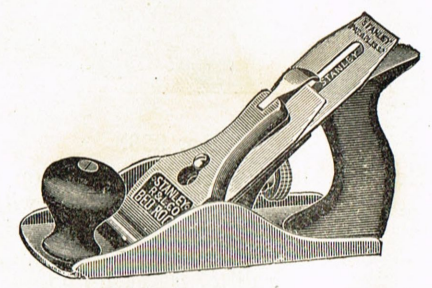
No. 972.	No. 3A. Smooth Plane,	8 in. in length,	1 3/4 Cutter	...	...	...	...	...	...	26/-
" 973.	" 4A. " "	9 "	2 "	...	...	...	...	...	...	28/6
" 974.	" 4 1/2 A. " "	10 "	2 3/8 "	...	...	...	...	...	...	32 6
" 975.	" 5A. Jack Plane	14 "	2 "	...	...	...	...	...	...	32/6
" 976.	" 5 1/2 A. Panel Plane	15 "	2 1/4 "	...	...	...	...	...	...	37/-
" 977.	" 6A. Fore " "	18 "	2 3/8 "	...	...	...	...	...	...	42/-
" 978.	" 7A. Jointer " "	22 "	2 3/8 "	...	...	...	...	...	...	48/-
" 979.	" 8A. " "	24 "	2 3/8 "	...	...	...	...	...	...	58/-

Stanley Co.'s New Pattern "Bed Rock" Planes.

In the "Bed Rock" Plane we have perfected a design which allows of the combination of the utmost solidity and rigidity, with a wider range of adjustments than heretofore placed on any Iron Plane.

PRICES.

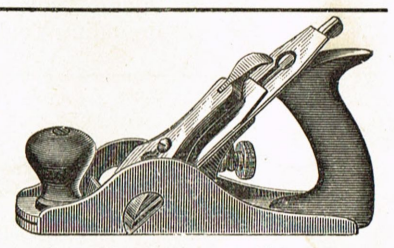
No. 986.	Smooth,	8 in. in length,	1 3/4 in. Cutter	...	...	...	29/6
" 987.	"	9 "	2 "	...	...	...	32/-
" 988.	"	10 "	2 3/8 "	...	...	...	37/-
" 989.	Jack,	14 "	2 "	...	...	...	37/-
" 990.	"	15 "	2 1/4 "	...	...	...	40/-
" 991.	Fore,	18 "	2 3/8 "	...	...	...	46/6
" 992.	Jointer,	22 "	2 3/8 "	...	...	...	53/6
" 993.	"	24 "	2 5/8 "	...	...	...	63/6



No. 986-993.

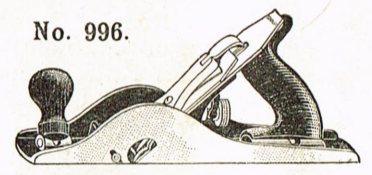
Carriage Makers' Rabbet Planes.

No. 994.	Carriage Makers' Rabbet Plane,	9 x 2 1/8 in.—No. 10 1/2 A	...	35/-
" 995.	" " "	13 x 2 1/8 in.—No. 10A	...	42/-
" 996.	" " "	13 x 2 1/8 in.—No. 10 1/4 A	...	50/-



No. 994 and 995.

Particular attention is called to the No. 10 1/4. This Plane not only has all the features of Nos. 10 and 10 1/2, but in addition both the handle and knob can be tilted to either side. This permits of the Plane being worked with ease close up to perpendicular sides of any height without hurting the hands of the user. It is also fitted with spurs on both sides, so that it will rabbet across the grain equally as well as with it.

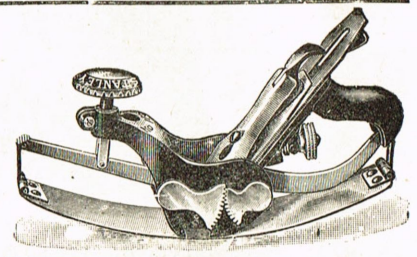


No. 996.

Stanley Adjustable Circular Plane.

No. 997. In this improved form of Circular Plane, the Flexible Steel Face can be easily shaped to any required Arc, either Concave or Convex, by turning the Knob on the front of the plane.

No. 113. Adjustable Circular Plane, 1 3/4 in. Cutter, 48/6 each.



American Patent Plane Irons for Stanley Planes.

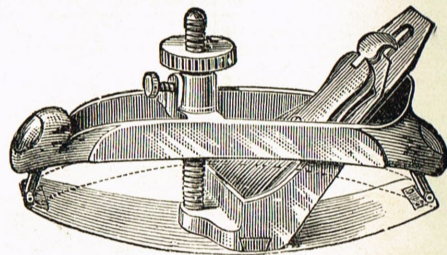
No. 1140.	Single Irons	...	1 1/4	1 5/8	1 3/4	2	2 1/8	2 1/4	2 3/8	2 5/8 in.
" 1141.	Double Irons	...	2/5	3/-	3/3	3/6	3/8	4/-	4/2	4/5 each.
		...	4/5	4/9	5/2	5/9	6/-	6/4	6/7	6/10 per pair.

C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

Victor Circular Plane.

No. 998. A very superior tool, and all its parts are specially designed with the object of eliminating any lost motion due to wear. There are less parts subject to lost motion in this Plane than in any other Circular Plane. The ends of the flexible face being fixed, and the force applied at the centre, great accuracy of adjustment is possible, and the face is most firmly held in position.

No. 20. Adjustable Circular Plane, Nickel plated, $1\frac{3}{4}$ in. Cutter, 53/6 each.

**Improved Scrub Plane.**

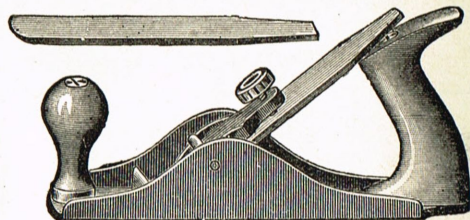
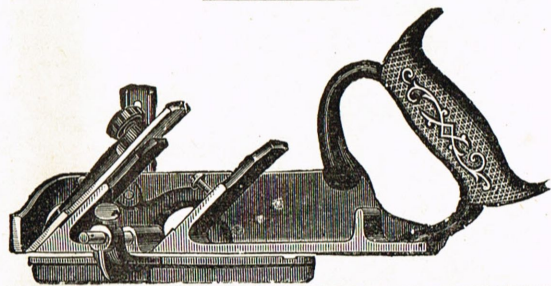
No. 1001. No. 40. Iron Stock, $9\frac{1}{2}$ in. in length, $1\frac{1}{4}$ in. Cutter 14/6 each.

No. 1002. No. 40 $\frac{1}{2}$. Iron Stock, $10\frac{1}{2}$ in. in length, $1\frac{1}{2}$ in. Cutter 19/6 „

Cutters for above Planes, $1\frac{1}{4}$ in. ... 2/- „

„ „ „ $1\frac{1}{2}$ in. ... 2/6 „

This tool has a single Iron, with the cutting edge rounded; and is particularly adapted for roughing-down work before using a Jack or other Plane.

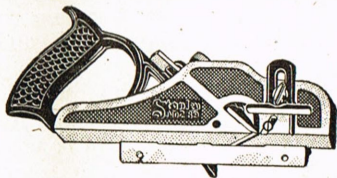
**Duplex Rabbet Plane and Fillister.**

Remove the arm to which the fence is secured, and a Handled Rabbet Plane is had; and with two seats for the Cutter, so that the tool can be used as a Bull-nose Rabbet if required.

This Plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners, or up against perpendicular surfaces.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left-hand Fillister, with adjustable spur and depth gauge.

No. 1008. No. 78A. Iron Stock and Fence, $8\frac{1}{2}$ in. in length, $1\frac{1}{2}$ in. Cutter, 21/6 each. Extra Cutters, 2/- each.

Skew Cutter Fillister and Rabbet Plane.

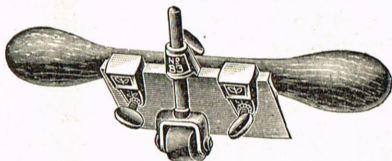
This pattern has an extra wide cutter set on a skew. The Fence and Depth Gauge can be attached to either side so that the plane can be used equally well for right- or left-hand work. The Fence slides under bottom regulating width of cut. The Plane has two adjustable spurs, one on each side. By removing the Depth Gauge, Fence, and Arm, a superior Rebate Plane is obtained.

No. 1009. No. 289A. Length, $8\frac{1}{2}$ in.; Cutter, $1\frac{3}{4}$ in. Price, 25/-.

Side Rabbet Plane.

No. 1013. A convenient Tool for side-rabbeting and trimming dados, mouldings, and grooves of all sorts. A reversible nose-piece will give the tool a form by which it will work close up into corners when required. Length, 4 in.

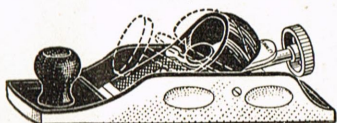
No. 98. Right Hand, 13/-. **No. 99.** Left Hand, 13/-.

**Improved Wood Scraper.**

No. 1014. This Scraper can be adjusted to any desired pitch, and may be worked toward or from the person using it. The Roller acts as a support to relieve the strain on the wrist and hands of the workman. The handle can be detached for working into corners.

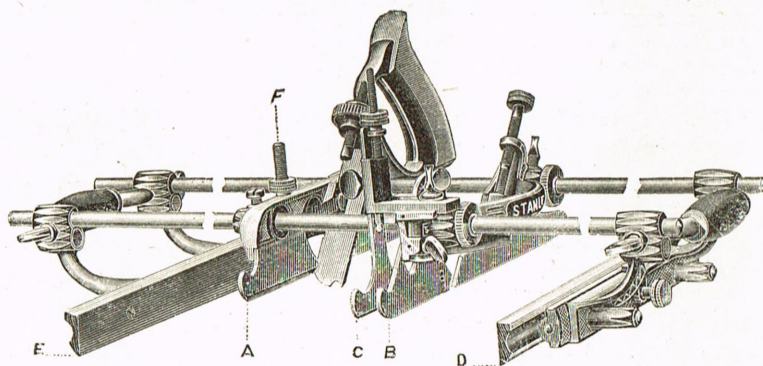
No. 83A. Wood Scraper, with Handles and Roller, 3 in. blade.

Price, 8/6 each. Extra Cutters for same, 1/9 each.

Adjustable Double-end Block Plane.

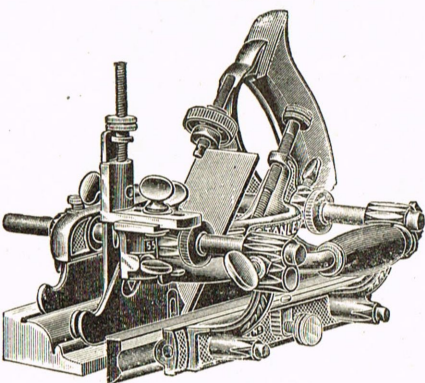
No. 1015. A Combination Block and Bull-nose Plane. It has two slots and a movable cutter seat. Use centre cutter seat and slot for ordinary block plane work. For use as a bull nose plane remove the cap and cutter, reverse the cutter seat by throwing over the adjusting wheel (see dotted lines in cut), replace the cap and cutter in the new position. The plane has the "Hand-y" feature, a rosewood knob, and the cutter is adjustable endwise.

No. 131A. 8 in. long. $1\frac{1}{8}$ in. Cutter. Japan Trimmings. Weight, $1\frac{1}{2}$ lb., 16/6 each.

Stanley's Universal Combination Plane. No. 55.

No. 1018.

The Plane adjusted for making Mouldings.



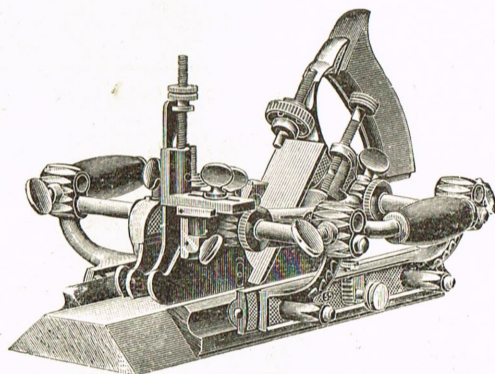
Containing the following Planes:

Moulding, Match, Sash, Chamfer, Beading, Reeding, Fluting, Hollow, Round, Plow, Dado, Rabbet, Fillister, and Slitting.

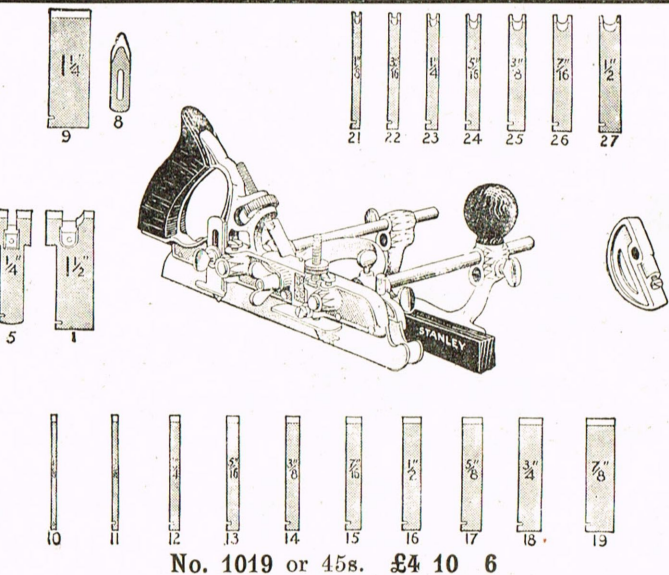
No. 55.

Price, complete with 52 cutters, in Steel Case, £8 18 6

The Plane adjusted for Chamfer to the required angle.



The Plane is nickel plated; the 52 Cutters are arranged in four separate cases; and the entire outfit is packed in a neat Case.

Stanley Adjustable Beading Rabbet and Matching Plane. No. 45.

No. 1019. This Plane combines a main stock and a sliding section so arranged that cutters of different widths can be used. Each Plane is fitted with adjustable fence or guide and a depth gauge, and also with spurs for use in working across the grain. This Plane can be used right or left hand.

This Plane embraces (1) Beading and Centre Beading Plane, (2) Rabbet and Fillister, (3) Dado, (4) Plow, (5) Matching Plane, (6) Sash Plane, and (7) a superior Slitting Plane.

Each Plane has 7 Beading Tools ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, and $\frac{1}{2}$ in.), 10 Plow and Dado Bits ($\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, and $\frac{7}{8}$ in.), a Slitting Blade, a Tonguing Tool, a Sash Tool, and $1\frac{1}{4}$ in. Fillister Iron.

For beading at a distance from the edge of a board, attach cam rest (see cut at right of Plane) to the front arm between the sliding section and fence to prevent the fence sagging. In certain work attach same to the rear arm to prevent the Plane from rocking.

No. 45 Nickel plated, with 21 Tools, Bits, etc., 90/6 each.

Each Plane is packed in a neat Case.

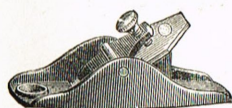
Hollows and Rounds, for Plane No. 45.

No. 1020. By substituting a specially formed detachable bottom, for the sliding section mentioned above, cutters known as "Hollows" and "Rounds" may be used to advantage. A special bottom is required for each size of these tools. The following sizes can be furnished:

No. 6	$\frac{1}{2}$ in. Cutter, works a segment of a $\frac{3}{4}$ in. Circle,	13/6	per pair.
" 8	" " " " " " " " " " " "	13/6	"
" 10	" " " " " " " " " " " "	14/6	"
" 12	" " " " " " " " " " " "	14/6	"

Nosing Tools, for No. 45.

No. 1021. No. 5. Nosing Tool, $1\frac{1}{4}$ in. (attach same as above), 11/- each.

Sargent Adjustable Iron Planes.

No. 104.



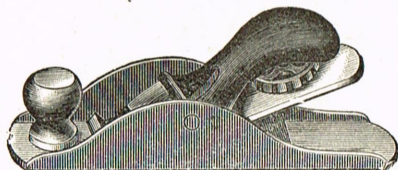
No. 105.

- No. 1024. No. 104, $3\frac{1}{2}$ in. long, 1 in. Cutter, 2/2 each.
 „ 1025. No. 105, $3\frac{1}{2}$ in. long, 1 in. Cutter, 2/6 „



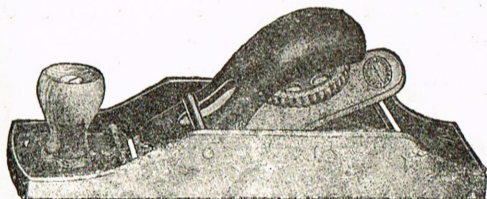
No. 106.

- No. 1026. No. 106, Block Plane, $5\frac{1}{2}$ in. long, $1\frac{3}{8}$ in. Cutter, 4/3 each.



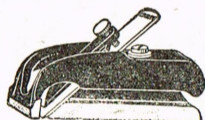
No. 107.

- No. 1027. No. 107, Block Plane, $7\frac{1}{2}$ in. long, $1\frac{5}{8}$ in. Cutter, 5/9 each.

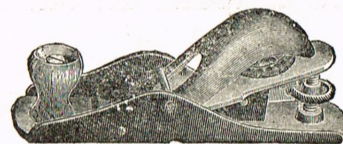


No. 227.

- No. 1028. No. 227, Double-Ended Block Plane, $7\frac{3}{4}$ in. long, $1\frac{5}{8}$ in. Cutter, 8/3 each.

Bull - Nose Rabbet Plane.

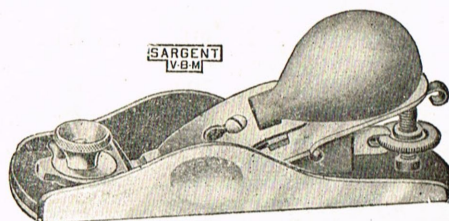
- No. 1017. Iron Stock, 4 in. length, 1 in. Cutter, 4/6 each.

Sargent V.B.M. Adjustable Iron Planes.

No. 208.

- No. 1031. No. 208, with Screw Adjustment, $7\frac{1}{2}$ in. long, $1\frac{5}{8}$ in. Cutter, 8/- each.

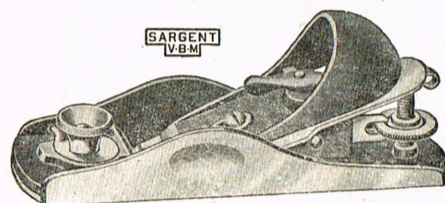
This Clamp is of Wrought Steel.



Nos. 5306 and 5307, Nickel Plated.

Iron Block Planes, Knuckle Joint, Screw Adjustment and Adjustable Mouth, Nickel Plated Trimmings.

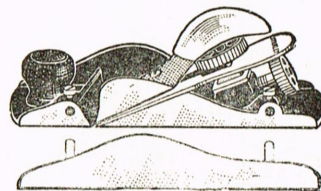
- No. 1035. No. 5306, 6 in. long, $1\frac{5}{8}$ in. Cutter, 13/3 each.
 „ 1036. „ 5307, 7 „ „ „ $1\frac{5}{8}$ „ „ 14/- „



Nos. 1306 and 1307, Nickel Plated.

Iron Block Plane, Screw Adjustment and Adjustable Mouth, Nickel Plated Trimmings.

- No. 1039. No. 1306, 6 in. long, $1\frac{5}{8}$ in. Cutter, 11/6 each.
 „ 1040. „ 1307, 7 „ „ „ $1\frac{5}{8}$ „ „ 12/3 „

Skew Mouthed Rabbet Plane.

No. 1016

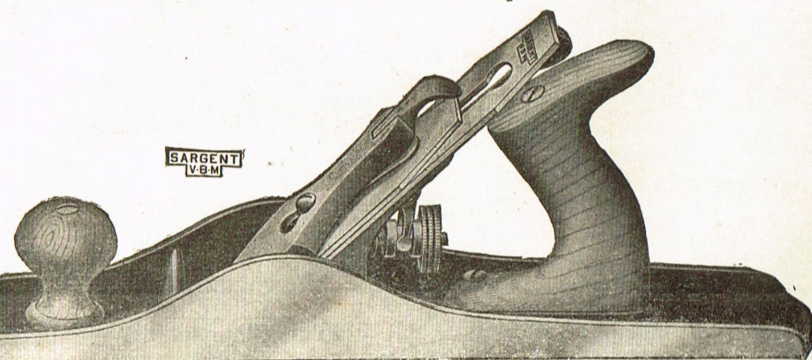
No. 1016. Skew Mouthed Rabbet and Block Plane. A detachable side easily changes this tool from a Block Plane to a Skew Rabbet Plane or vice versa.

Price 17/6 each.

CHARLES NURSE & CO., LTD.

SARGENT'S V.B.M. ADJUSTABLE IRON PLANES.

We warrant all Planes upon which the name Sargent appears.



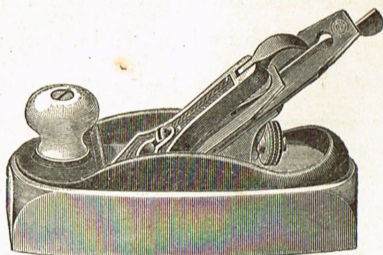
Bench Planes.

Polished Trimmings, East India Mahogany Handle and Knob.

With Patent Side Adjustment for exact adjusting of the Cutter with the face of the Plane.

No. 1049.	No. 407.	Smooth Plane, 7 in., $1\frac{5}{8}$ in. Cutter	...	...	...	19/6 each.
" 1050.	" 408.	" " 8 " $1\frac{3}{4}$ " "	...	...	...	21/3 "
" 1051.	" 409.	" " 9 " 2 " "	...	...	...	23/- "
" 1052.	" 410.	" " 10 " $2\frac{3}{8}$ " "	...	...	...	26/9 "
" 1053.	" 414.	Jack Plane, 14 " 2 " "	...	...	...	26/9 "
" 1054.	" 415.	" " 15 " $2\frac{1}{4}$ " "	...	...	...	30/- "
" 1055.	" 418.	Fore " 18 " $2\frac{3}{8}$ " "	...	...	...	34/- "
" 1056.	" 422.	Jointer " 22 " $2\frac{3}{8}$ " "	...	...	...	39/- "
" 1057.	" 424.	" " 24 " $2\frac{5}{8}$ " "	...	...	...	46/- "

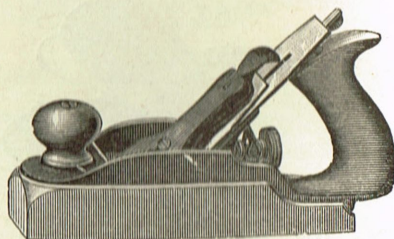
Sargent V.B.M. Adjustable Wood Bottom Planes.



SMOOTH.

With Screw Adjustment. With Patent Side Adjustment for exact adjusting of the Cutter with the face of the Plane.

1068.	No. 3408.	8 in., $1\frac{3}{4}$ in. Cutter	...	14/3 each.
1069.	" 3409.	9 " $1\frac{3}{4}$ " "	...	15/- "
1070.	" 3410.	8 " 2 " "	...	14/3 "

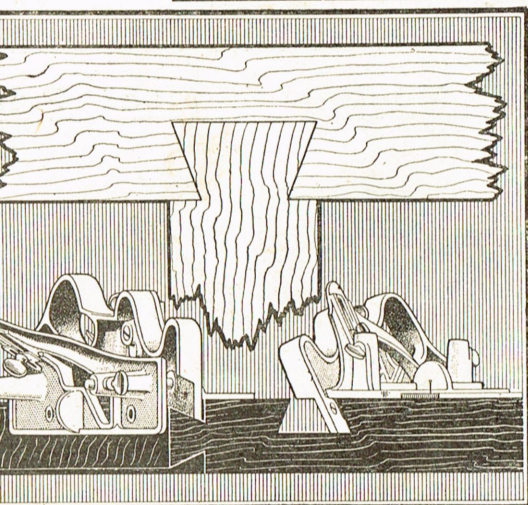


HANDLED SMOOTH.

With Screw Adjustment. With Patent Side Adjustment for exact adjusting of the Cutter with the face of the Plane.

No. 1071.	No. 3411.	Handled, 9 in., 2 in. Cutter	18/- ea.
" 1072.	" 3412.	" 10 " $2\frac{3}{8}$ " "	19/6 "

Stanley Dovetail Tongue and Groove Plane.



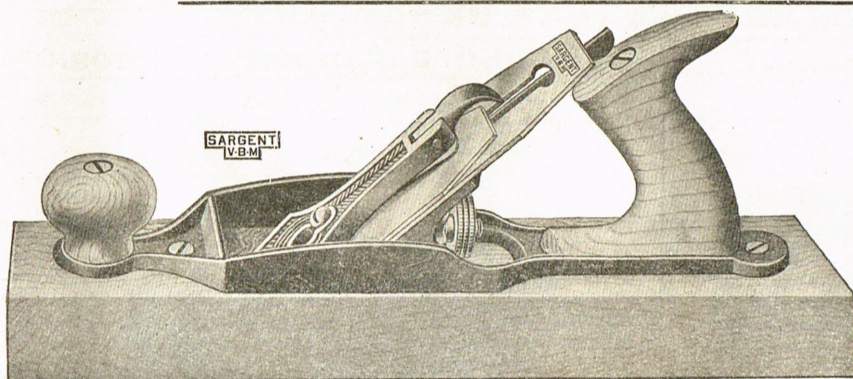
This novel tool accomplishes a result sought for many years by wood workers in general—namely, to form a dove-tail tongue and groove with one hand tool.

It will cut any size grooves and tongues to fit with sides at flare of 20 degrees, where the width of the neck is more than one-quarter of an inch and the depth of groove not more than three-quarters of an inch. The tongue and groove are cut separately, and can be made with parallel or tapering sides. A circular containing instructions for assembling and operating is packed with each tool.

The compactness of the tool is shown in the illustration, where the cut on the left shows the Plane assembled for cutting the tongue, and that on the right the Plane assembled for cutting the groove.

No. 1023 or 444s. 9 in. long, Nickel plated, weight, 6 lb.
Price 80/- each.

Sargent V.B.M. Adjustable Wood-Bottom Planes.

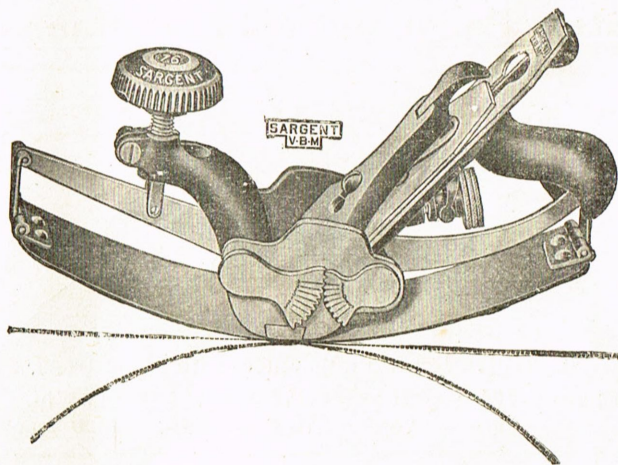


With Screw Adjustment. With Patent Side Adjustment for exact adjusting of the Cutter with the face of the Plane.

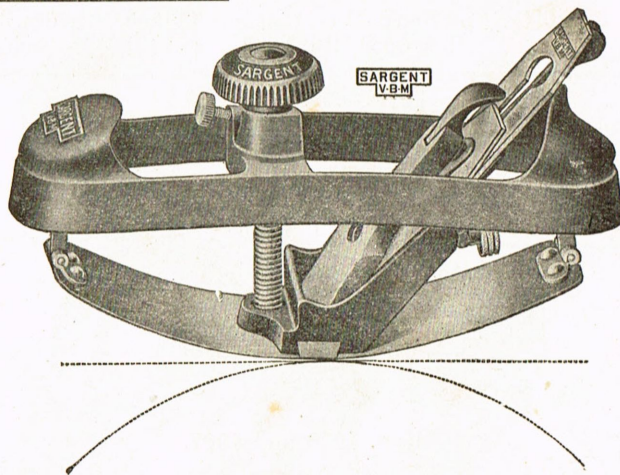
JACK AND FORE.		each.
No. 1073.	No. 3415. Jack Plane, 15 in., 2 in. Cutter	16/-
" 1074.	" 3417. " " 15 " 2 1/4 " "	17/9
" 1075.	" 3418. Fore Plane 18 " 2 3/8 " "	20/6

JOINTER.		
No. 1076.	No. 3422. Jointer Plane, 22 in., 2 3/8 in. Cutter	21/6
" 1077.	" 3426. " " 26 " 2 5/8 " "	23/-
" 1078.	" 3430. " " 30 " 2 5/8 " "	25/-

Sargent's Circular Planes.

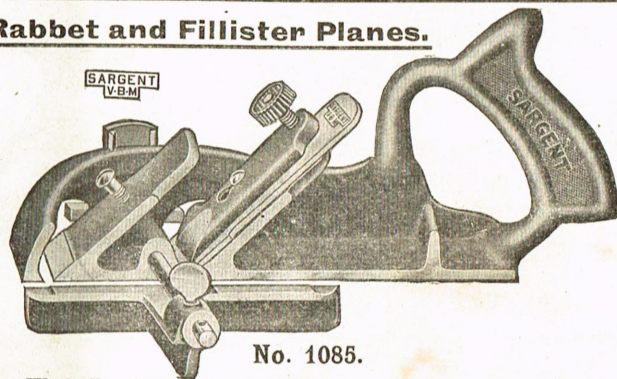


No. 1079. No. 76. Japanned, 10 in., 1 3/4 in. Cutter, 42/6 ea.



No. 1080. No. 74. Japanned, 10 in., 1 3/4 in. Cutter, 46/- ea.

Rabbet and Fillister Planes.

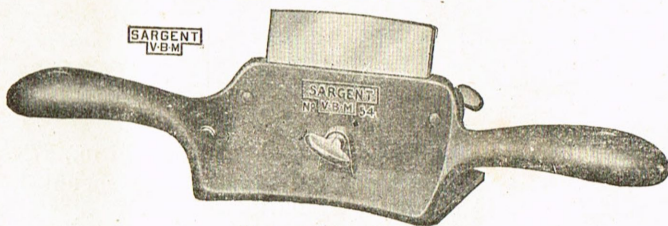


No. 1085.

With Depth Gauge and Spur and Removable Arm and Fence. Japanned Finish.

No. 1085. No. 79. 8 1/2 in., 1 1/2 in. Cutter ... 19/-

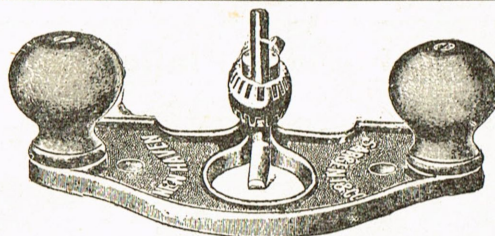
Handled Cabinet Scrapers.



Raised Handles.

No. 1092. No. 54. Japanned, 11 in., 2 3/4 in. Cutter 8/3 ea.

Sargent Adjustable Iron Planes.

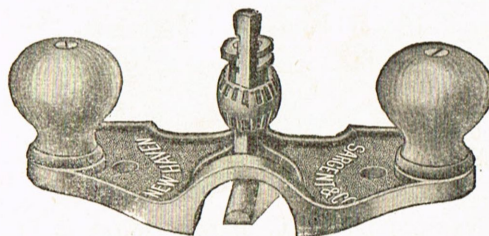


Router Planes.

No. 1086.

Screw Adjustment. Closed Throat, Nickel Plated, Wood Handles.

No. 1086. No. 61. With two Cutters, 1/4 and 1/2 in., 16/- each.

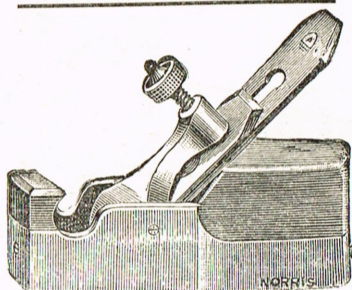


No. 1087.

Screw Adjustment. Open Throat, Nickel Plated, Wood Handles.

No. 1087. No. 62. With two Cutters, 1/4 and 1/2 in., also extra attachment for closing the throat, 19/6 each.

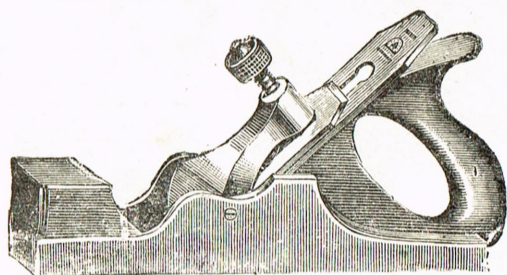
Smooth Planes.



Nos. 1093, 1094 and 1095.

1093. Best Malleable Iron, 2 in., 37/-; 2½ in., 39/6; 2¾ in., 41/6 each.
1094. Best Gun Metal ditto, Steel Face, and fitted with Ebony, 2 in., 57/-; 2½ in., 59/6; 2¾ in., 62/- each.
1095. Improved Steel Smooth Plane, fitted with Rosewood, 2 in., 43/6; 2½ in., 45/- each.

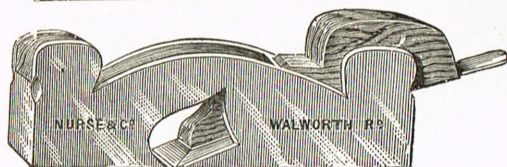
Iron Panel Planes.



Nos. 1096 and 1097.

1096. 9 in. long, with 2¼ in. Irons, Rosewood mounted, 41/6 each.
1097. 12½ in. long, with 2½ in. Irons, Rosewood mounted, 57/6 each.

Steel Shoulder Planes.



1098. Rosewood mounted, 8 in. × 1¼ in., 38/-; 8 in. × 1½ in., 39/- each.

Bull-Nose Planes.

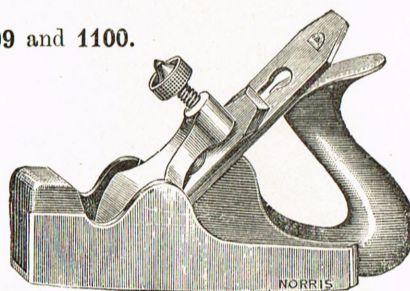
Nos. 1105 and 1106.



1105. Best Malleable, Rose Mounted, 1 in., 16/-; 1½ in., 17/6; 1¾ in., 18/6 each.
1106. Gun Metal, Steel-faced, Ebony Mounted, 1 in., 24/-; 1½ in., 25/-; 1¾ in., 26/6 each.

Handled Smooth Planes.

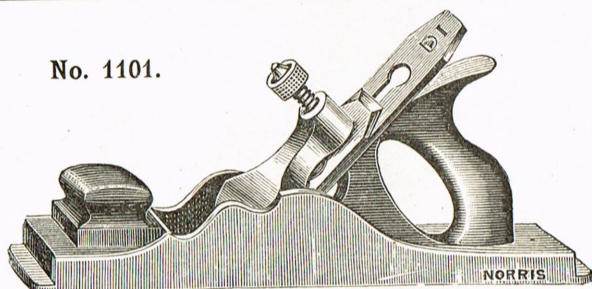
Nos. 1099 and 1100.



- No. 1099. Improved Handled Steel Smooth Plane, 2 in., 48/6; 2½ in., 49/6 each.
- „ 1100. Gun Metal ditto, with Steel Face, 70/- each.
- Either of these Planes, if made with closed Rosewood Handle, 1/- extra.

Steel Panel and Jointer Planes.

No. 1101.



- No. 1101. Rosewood mounted, with 2½ in. Irons.
- | | | | | | |
|--------|---------|---------|---------|---------|------------|
| Length | 13½ in. | 15½ in. | 17½ in. | 22½ in. | 25½ in. |
| | 69/- | 73/6 | 78/6 | 85/- | 98/- each. |

Smoothing Plane, with Closed Handle.

Malleable Iron

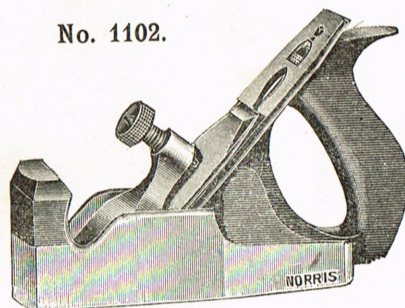
No. 1102.

2½ in. 42/6
2¾ in. 44/- ea.

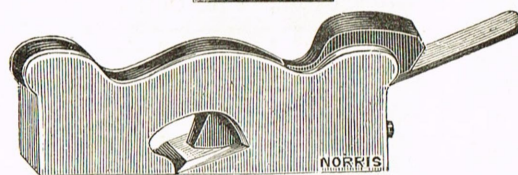
No. 1102 G.

Gun Metal, Steel Faced, fitted with Rosewood.

2½ in. 65/6
2¾ in. 66/6 ea.



Iron and Gun Metal Shoulder Planes.

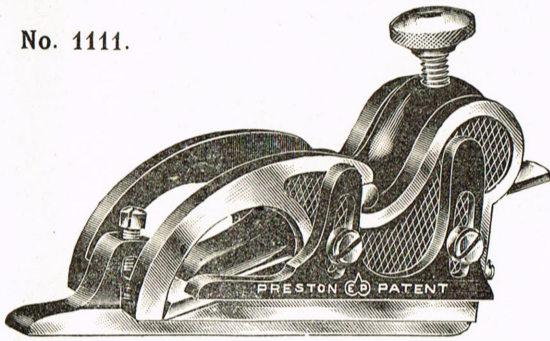


Nos. 1103 and 1104.

- No. 1103. Best Malleable Iron, 1½ in., 34/6; 1¾ in., 37/-
- „ 1104. Gun Metal, Steel Faced, Ebony mounted, 1½ in., 52/-; 1¾ in., 53/6 each.

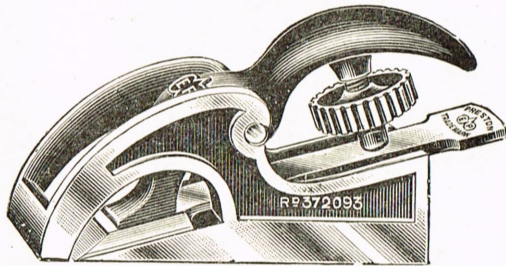
NEW PATTERNS ENGLISH-MADE METAL PLANES.**Iron Bull-Nose, Rabbet, and Right and Left-hand Fillister Plane.**

No. 1111.

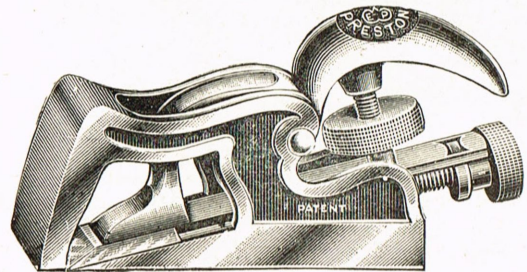
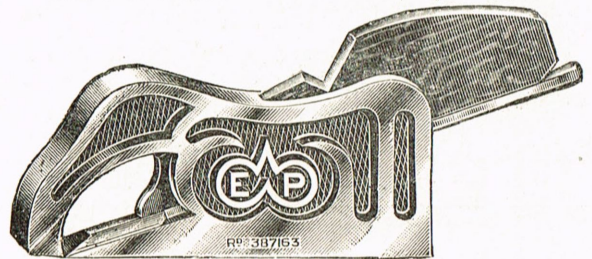
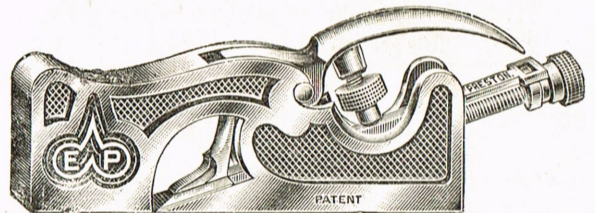


With Fence and Stop. The Fence is attached to the bottom of Plane and is adjustable for varying depths of Rabbet. Both Fence and Stop may be detached, and the Plane used as an ordinary Bull-nose Plane.

No. 1111. With Fence and Stop, 13/6.

Registered Bull-Nose Plane.No. 1112. Japanned, with Bright Parts, $3\frac{3}{4}$ in. $\times$ $\frac{5}{8}$ in., 8/- each.,, 1113. Japanned, with Bright Parts, $3\frac{3}{4}$ in. $\times$ $1\frac{1}{8}$ in., 10/- each.,, 1114. Nickel plated Ditto, $3\frac{3}{4}$ in. $\times$ $1\frac{1}{8}$ in., 12/- each.**Adjustable Bull-Nose Plane.**

No. 1115.

Nickel plated, 4 in. $\times$ $\frac{5}{8}$ in., 13/6; 4 in. $\times$ $1\frac{1}{8}$ in., 16/- each.**Bull-Nose Rabbet Plane.**No. 1121. Nickel plated, with Rosewood Wedge, 3 in. $\times$ $\frac{3}{8}$ in., 7/6 each.**Adjustable Rabbet Plane.**No. 1122. Sizes, 5 in. $\times$ $\frac{5}{8}$ in., 18/6; 8 in. $\times$ 1 in., 37/6; 8 in. $\times$ $1\frac{1}{4}$ in., 40/-; 8 in. $\times$ $1\frac{1}{2}$ in., 42/6.**Patent Adjustable Iron Grooving or Depthing Router.****Nickel Plated.**

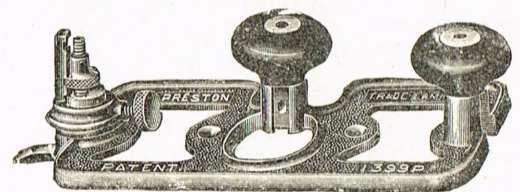
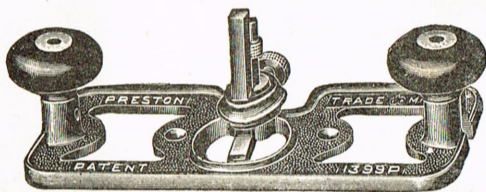
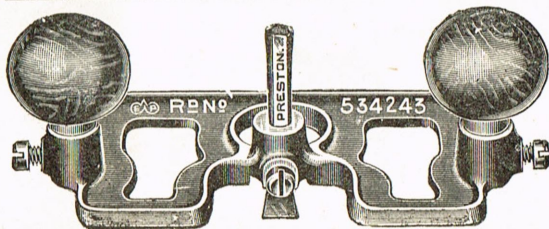
No. 1117. This will be found a very useful tool to Carpenters, Pattern Makers, Cabinet Makers, Staircase Makers, and Woodworkers generally for depthing and smoothing the bottoms of grooves and cavities below the surface of woodwork.

Two Cutting Irons are supplied (one $\frac{5}{16}$ in. and $\frac{7}{16}$ in.) with each tool. These are held in position on the upright grooved supports by means of the collar and milled head screw; they may be used in the position as shown in the drawing (Fig. 1), or fixed and used in the groove on reverse side of centre support.

For working close into corners either of the knobs may be removed and the Cutting Iron fixed on one of the end supports, see drawing (Fig. 2).

The Cutting Irons may be adjusted by the

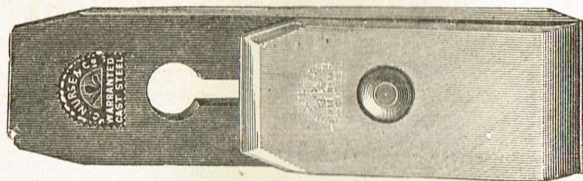
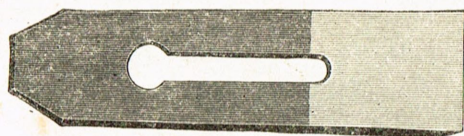
milled nut to the various depths required. When adjusting the Cutting Iron, slacken the milled head screw of collar. Drawings are about quarter size. Price, 16/- each.

**Grooving or Depthing Router.**

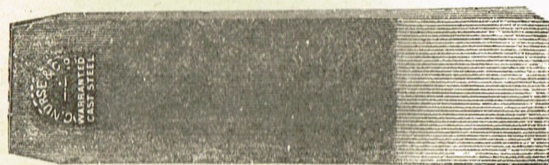
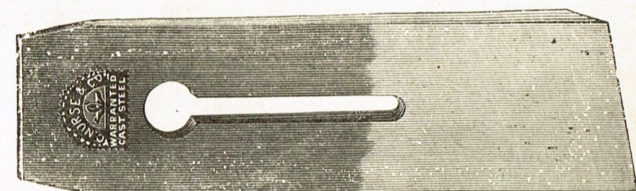
No. 1119. This is a very useful tool for Pattern Makers, Cabinet Makers, Carpenters, etc., for smoothing the bottoms of grooves and depressions below the surface of small woodwork.

The Cutting Irons may be used either in the centre as shown in the drawing, or either knob may be removed when the Cutting Iron can be inserted and used for getting close into corners. Price, 7/6.

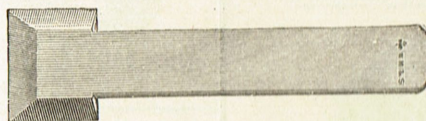
PLANE IRONS.



		$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{3}{4}$	3 in.
o. 1142.	Single Cut Irons ...	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{6}$	$1\frac{1}{7}$	$1\frac{1}{10}$	$2\frac{1}{-}$	$2\frac{1}{2}$	$2\frac{1}{5}$	$2\frac{1}{8}$	$3\frac{1}{4}$ each.
1143.	Double Irons ...	$2\frac{1}{6}$	$2\frac{1}{6}$	$2\frac{1}{10}$	$2\frac{1}{11}$	$3\frac{1}{3}$	$3\frac{1}{6}$	$3\frac{1}{9}$	$4\frac{1}{1}$	$4\frac{1}{5}$	$5\frac{1}{6}$
1144.	Single Cut Parallel ...	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{11}$	$2\frac{1}{-}$	$2\frac{1}{3}$	$2\frac{1}{5}$	$2\frac{1}{6}$	$2\frac{1}{9}$	$3\frac{1}{-}$	$3\frac{1}{9}$ "
1145.	Double Parallel ...	$2\frac{1}{10}$	$2\frac{1}{10}$	$3\frac{1}{1}$	$3\frac{1}{3}$	$3\frac{1}{7}$	$3\frac{1}{11}$	$4\frac{1}{1}$	$4\frac{1}{5}$	$4\frac{1}{9}$	$6\frac{1}{-}$ "

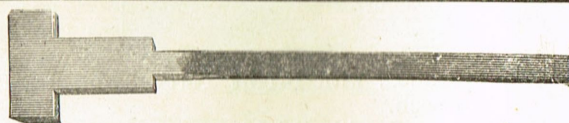


- o. 1148. Skew Parallel Badger Irons, $2\frac{1}{4}$ in., Single, $2\frac{1}{4}$ Ditto, Double, $4\frac{1}{-}$ each.
 1149. Tothing Irons, 2 in., Fine, Medium, or Coarse, $2\frac{1}{2}$ each.



No. 1152.

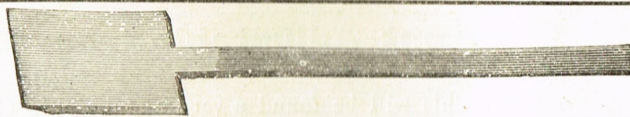
- o. 1150. Short Uncut Plane Irons, to $1\frac{1}{4}$ in., $1\frac{1}{-}$; $1\frac{1}{2}$ in., $1\frac{1}{1}$; $1\frac{3}{4}$ in., $1\frac{1}{2}$. These Irons are about $5\frac{1}{2}$ in. long.
 1151. Bright Parallel Chariot Plane Irons, $1\frac{1}{8}$ in., $1\frac{1}{7}$; $1\frac{1}{4}$ in., $1\frac{1}{7}$; $1\frac{1}{2}$ in., $1\frac{1}{7}$ each.
 1152. Bright Bull-nose Irons, to $1\frac{1}{4}$ in., $1\frac{1}{3}$ each.



- o. 1153. Bright Shoulder Plane Irons, $1\frac{1}{4}$ in., $1\frac{1}{5}$; $1\frac{1}{2}$ in., $1\frac{1}{6}$ each.
 1154. T Rabbet Plane Irons, $1\frac{1}{4}$ in., $1\frac{1}{3}$; $1\frac{1}{2}$ in., $1\frac{1}{3}$; $1\frac{3}{4}$ in., $1\frac{1}{5}$; 2 in., $1\frac{1}{8}$ each.



Square Rabbet Iron.



Skew Rabbet Iron.

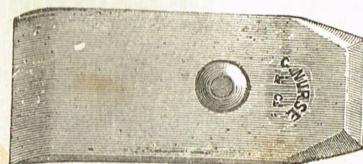
- o. 1155. Rabbet Plane Irons, Square or Skew, $\frac{1}{2}$ in. to 1 in., $-\frac{1}{10}$: $1\frac{1}{4}$ in., $-\frac{1}{11}$; $1\frac{1}{2}$ in., $1\frac{1}{-}$; $1\frac{3}{4}$ in., $1\frac{1}{1}$; 2 in., $1\frac{1}{2}$ each.
 1157. Best Bright Plough Irons, $9\frac{1}{9}$ per set of 8 Nos. 1 to 8, $1\frac{1}{3}$ each. Sizes $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$ in.



No. 1158. Sash Fillister Irons, right or left hand, $1\frac{1}{-}$ each.

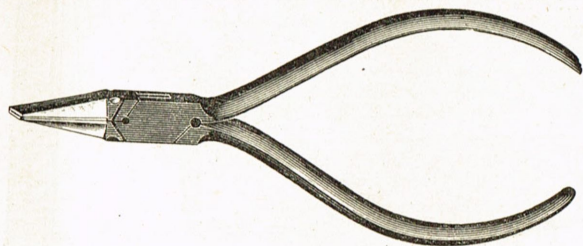


- o. 1160. Match Plane Irons, $\frac{3}{8}$ in. to 1 in., $1\frac{1}{10}$ per pair.
 1161. Bead Plane Irons, to $\frac{1}{2}$ in., $1\frac{1}{8}$; $\frac{3}{4}$ in., $1\frac{1}{10}$; $\frac{7}{8}$ in. or 1 in., $2\frac{1}{-}$ each.
 1162. Hollow and Round Irons, Nos. 2 to 12, $2\frac{1}{6}$ per pair. Nos. 14 to 18, $3\frac{1}{-}$ per pair.
 1163. Coach Router Irons, to $\frac{3}{4}$ in., $1\frac{1}{3}$ each.
 1164. Best Bright Top Irons with Screws to $2\frac{1}{4}$ in., $1\frac{1}{2}$; $2\frac{1}{2}$ in., $1\frac{1}{4}$; $2\frac{3}{4}$ in., $1\frac{1}{6}$ each.
 1137. Iron Fronts for Smooth Planes, complete with Screw and Nut, $3\frac{1}{-}$ each.



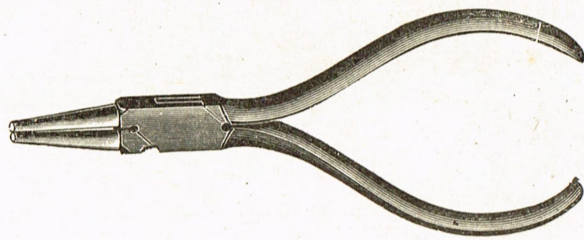
PLIERS AND PINCERS.

Best Quality Flat-nose Pliers.

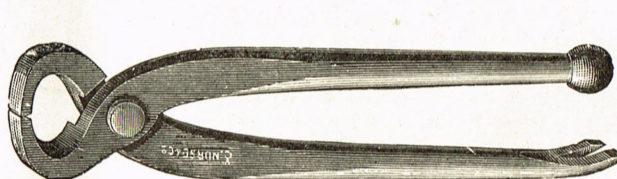


No. 1165. 4 4½ 5 5½ 6 7 8 in.
 „ 1165½. Med. Qual. 2/- 2/- 2/2 2/4 2/6 3/9 5/- p. pair
 „ 1165½. Med. Qual. 1/2 1/3 1/6 1/9 2/- 2/9 3/6 „

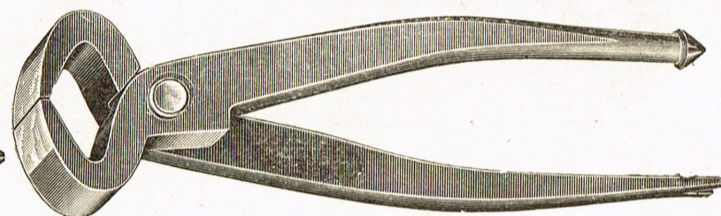
Best Quality Round-nose Pliers.



No. 1166. 4 4½ 5 5½ 6 7 8 in.
 „ 1166½. Med. Qual. 2/- 2/- 2/2 2/4 2/6 3/9 5/- p. pair
 „ 1166½. Med. Qual. 1/2 1/3 1/6 1/9 2/- 2/9 3/6 „



No. 1167.



No. 1168.

			6	7	8	9	10 in.	
No. 1167.	Best Tower Pincers	...	1/9	2/-	2/6	3/-	3/9	per pair.
„ 1168.	Ditto, Lancashire Pattern	...	3/-	3/6	4/-	4/6	—	„
„ 1170.	Lancashire Cutting Nippers	...	3/-	3/6	4/-	—	—	„

PENCILS.

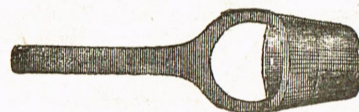


No. 1173. Round Cedar Pencils ... 1/3 per doz.
 „ 1175. Plain Oval Cedar Carpenters' Pencils ... 2/- „

PUNCHES — Various.



No. 1181.



No. 1181. New Pattern All-steel Saddlers' Punches.

Nos.	0 to 6	7	8	9	10	11	12	13	14	15	16	17	18
	1/16 to 3/16	7/32	1/4	9/32	5/16	11/32	3/8	7/16	1/2	9/16	5/8	11/16	3/4 in.
	-/8	-/9	-/10	-/11	1/1	1/3	1/6	1/9	2/-	2/3	2/8	3/3	4/- each.

No. 1182. Wad Punches, Best Solid Steel.

	1/3	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2 in.
	1/9	1/10	2/-	4/-	5/3	6/9	8/6	10/6	13/3	16/-	18/6	22/-	25/- each.

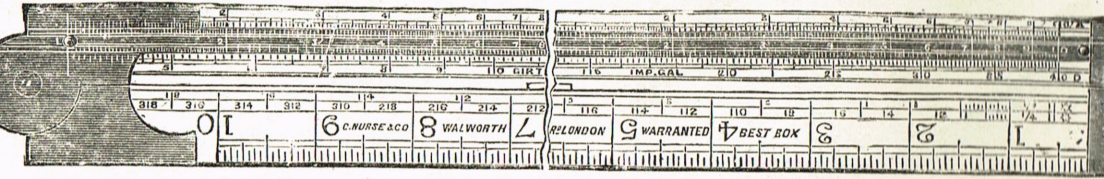
No. 1183. Venetian Blind Cutting Punch, 6/- each.

„ 1184. Button-hole Hand Punches, 5/8 in., 3/3; 3/4 in., 3/6; 7/8 in., 3/9; 1 in., 4/- each.

CHARLES NURSE & CO., LTD.

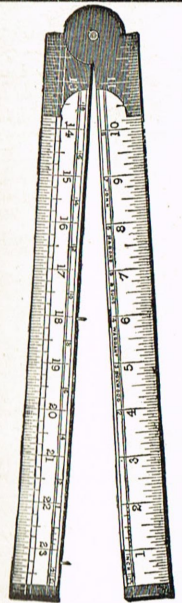
Rules—Boxwood, 2 ft. 2-Fold.

1185. Boxwood, 2 ft. 2-Fold, with Arch Joints 1/6 and 2/- each.
 1186. Ditto, Degrees on Joints, 4 Scales, 8 Square Line 2/-
 1188. Boxwood, 2 ft. 2-Fold, with Brass Slide 2/- and 3/-
 1189. Best Boxwood, 2 ft. 2-Fold, Brass Slide, 6 Scales, 8 Square and Gunter's Line 4/-



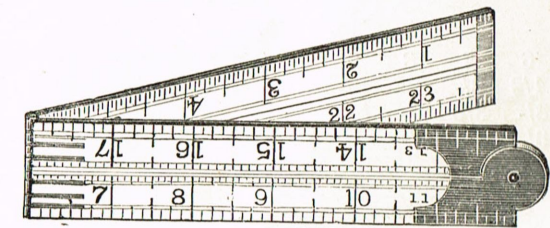
No. 1190.

1190. Best Boxwood, 2 ft. 2-Fold, Brass Slide, with Gunter's Line, 8 Square Line and Scales 4/6 each.
 1192. Ditto, ditto, Routledge's Best Engineers' Slide Rule 6/-
 1193. Instruction Books on Slide Rules, Jointers', -/6; Engineers', -/8 each.



No. 1185.

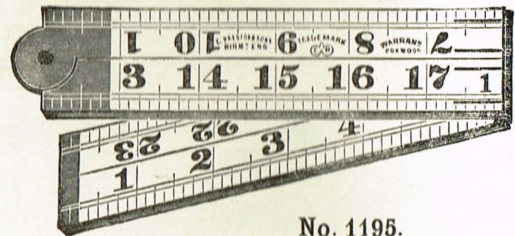
Rules—Boxwood, 2 ft. 4-Fold.



No. 1191 1/2.

- 1191 1/2. Boxwood, 2 ft. 4-Fold Rules, 1/-, 1/6, and 2/- each.
 1192 1/2. Ditto, ditto, with Arch Joints, 1 in., 1/6; 1 1/8 in., 1/9; 1 3/8 in., 2/-; 1 1/2 in., 2/6 each.
 1193 1/2. Ditto, ditto, marked English on one side and Metric on other side, 1 1/8 in. wide, 2/- each.
 1194. Ditto, 1 metre long, 4-Fold English and Metre, 2/6, 3/-, and 5/- each.

Boxwood Rules.

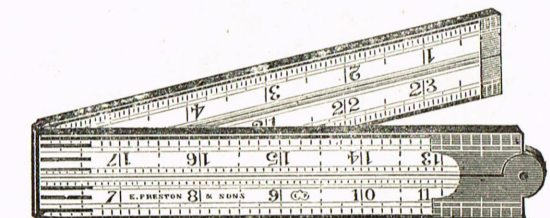


No. 1195.

No. 1195. Square Joint Brass Mounts, 1 3/8 in. wide, Polished. Price, 2 ft., 2/6 each; 3 ft., 3/- each.

This Rule has very bold black figures, and is specially heavily graduated in eighths of inches. It will be found very useful to persons with weak eyesight or for use in badly lighted places.

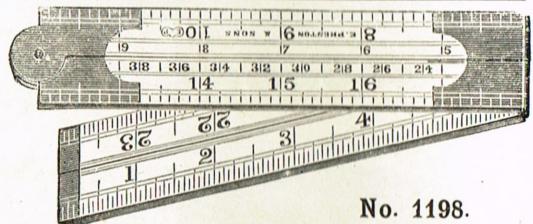
Two-foot Boxwood Rules.



No. 1196.

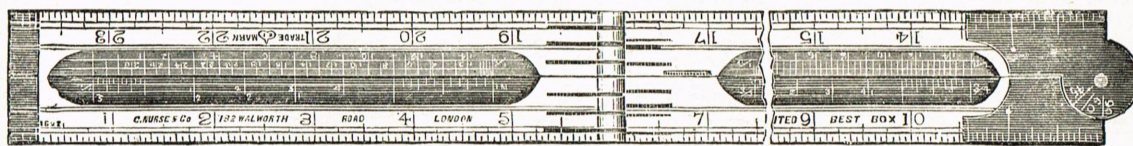
1196. Arch Joints, Brass Bound Outside Edges, 8ths, 16ths, 10ths, 12ths.
 Width 1 1 1/8 1 3/8 in.
 Price 3/- 3/6 4/- each.
 1197. Ditto, Brass Bound Four Edges 4/6 5/6

Two-foot Boxwood Rules.



No. 1198.

- No. 1198. Three Arch Joints. Marked 8ths, 16ths, and Scales. Brass Pinholes.
 Width 1 1 1/8 1 3/8 in.
 Price 2/6 3/- 3/6 each.
 No. 1199. Ditto, Brass Bound on outside Edges, 5/- each.
 „ 1200. Boxwood, 2 ft. 4-Fold Rule, with Brass Slide, 4/- each.
 „ 1201. Best Boxwood, 2 ft. 4-Fold Rule, with Brass Slide, Scales, and Timber Table, 5/6 each.
 „ 1202. Ditto, ditto, with Spirit Level and Marked Full Degrees on Joint, 8/- each.

Rules—continued.

- No. 1203. Boxwood, 2 ft. 4-Fold, with Inside Edges Bevelled, 1 in., 3/- each.
 „ 1204. Ditto, ditto, and with Brass Edge Plates, 1 in., 3/6; 1½ in., 4/6 each.
 „ 1205. Extra Best Boxwood, with Steel Plates in Joints, 4 Bevelled Edges and 8 Scales, 1 in., 5/-; 1½ in., 5/6 ea.
 „ 1206. Best Boxwood German Silver Arch Joints, 4 Bevelled Edges and 8 Scales, 1 in. wide, 6/- each.
 „ 1207. Ditto ditto ditto with 16 Scales, 1½ in. wide, 8/- each.
 „ 1208. Ditto ditto ditto with Edge Plates and 16 Scales, 1½ in. wide, 10/- each.
 „ 1209. Ditto ditto ditto with Edge Plates, 16 Scales, and Slide, 1½ in. wide, 13/6 each.

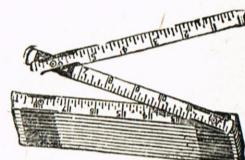
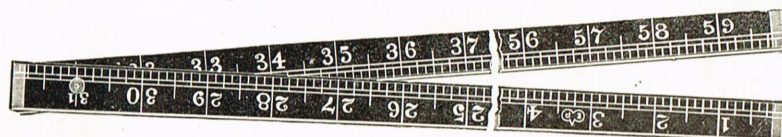
Ivory Rules—1 ft. and 2 ft. 4-fold.

- No. 1213. 1 ft. 4-Fold Ivory Rules, German Silver Square Joint, ½ in. wide, 7/- each.
 „ 1214. 1 ft. 4-Fold ditto, German Silver Arch Joint, ¾ in. wide, 10/- each.
 „ 1218. 2 ft. 4-Fold ditto, with Inside Edges Bevelled and Marked with 16 Drawing Scales and Chain Scales, 1 in. wide, 36/- each.
 „ 1219. 2 ft. 4-Fold ditto, ditto, and with Degrees on Joint, 1½ in. wide, 43/- each.
 „ 1220. 2 ft. 4-Fold ditto, ditto, with 8 Bevels, Drawing Scales, Chain Scales, and Degrees on Joint, 1½ in. wide, 47/- ea.
 Engraving Customers' Names on Joints of Rules, 1/- each.

Boxwood Rules—3 ft. and 4 ft.

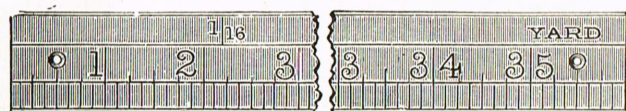
- No. 1224. 3 ft. 4-Fold Boxwood Rules, with Arch Joints, 1½ in., 2/6; 1¾ in., 3/- each.
 „ 1225. 3 ft. 4-Fold ditto, Best Quality, 1¾ in. wide, 3/6 and 4/- each.
 „ 1226. 4 ft. 4-Fold Coachmakers' Boxwood Rules, Best Quality, 1¾ in. wide, 5/-, 5/6 and 6/- each.
 „ 1227. Ditto ditto 1½ in. wide, 5/6 and 7/- each.
 „ 1228. Ditto ditto 1½ in. wide, with 12 in. Brass Slide, 10/- each.
 „ 1228½. 1 Metre 4-Fold Boxwood Rules, marked one side each English and Metric, 2/6, 3/- and 5/- each.

- No. 1231. Improved Folding Rules, marked English on one side and Metric on other, 4 ft., 1/6; 5 ft., 1/9 and 2/3; 6 ft., 2/- and 2/6 each.
 „ 1232. Best Quality ditto, with Hook, 4 ft., 2/-; 6 ft., 3/- each.

Surveyors' Rods, Counter Measures, Rules, &c.

- No. 1233. 5 ft. Jointed Surveyors' Rods, with Spring Stop, Black with White Figures, 7/- each.

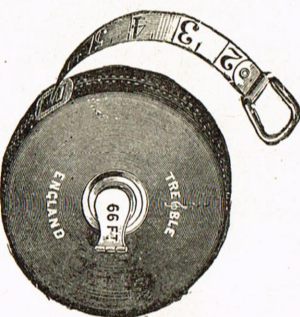
No. 1233.



- No. 1234. Straight Boxwood Laths, 3 ft. × 1 in. wide, 2/- each.
 „ 1235. Straight Boxwood Laths or Bench Rules, 1½ in. wide × ¼ in. thick, 2 ft., 2/6; 3 ft., 3/-; 4 ft., 5/6; 5 ft., 8/- each.

Nos. 1236 and 1237.

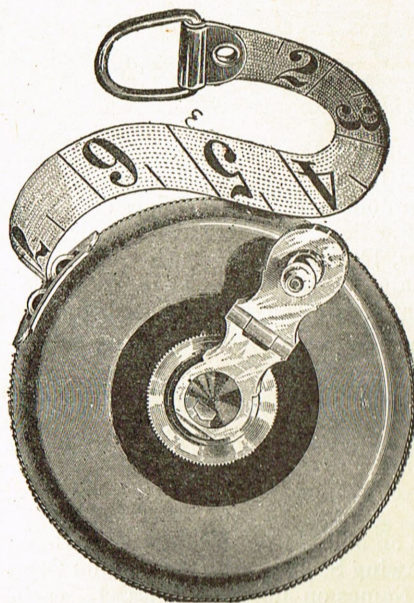
- No. 1236. 3 ft. Brass Counter Measures, ¾ in. wide, marked one edge in inches, and other in parts of a yard, 3/6 each.
 „ 1237. 3 ft. ditto, 1 in. wide, marked one edge in inches, and other in parts of a yard, 4/- each.
 „ 1237½. 3 ft. Drapers Round Yard Sticks, Brass Tipped, 2/- each.
 „ 1239. 2 ft. 2-Fold Steel Rules, Best Quality, Machine Divided, ¾ in. wide, G.S. Ends, 3/- each.
 „ 1241. 2 ft. ditto, Brass Rules, with Stop Joints, ¾ in. wide, 1/9; 7/8 in. wide, 2/- each.
 For a large variety of better quality Steel Rules, Straight-edges, and Contraction Rules, see Engineers' Section.

Tape-measures, Linen, Metallic, and Steel.Linen
Measuring
Tapes.

No. 1242.

No. 1242. Linen Tape, $\frac{9}{16}$ in. wide, Leather Case, with Folding Handle.

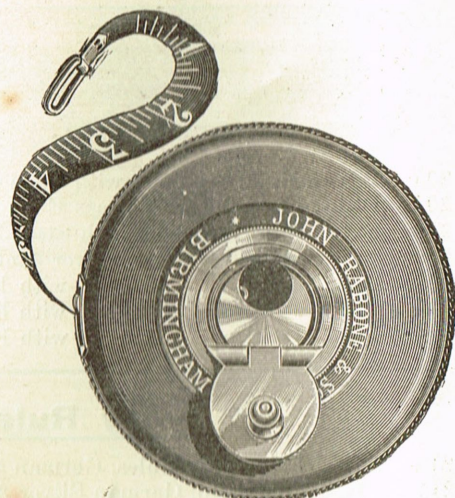
33 ft., 6/-; 50 ft., 8/-;
66 ft., 9/- each.

Special Metallic
Tape.

No. 1243.

No. 1243. $\frac{5}{8}$ in. Metallic Tape, with Rollers and Folding Handle, Leather Case.

33	50	66	100 ft.
8/6	11/-	13/6	19/- each.

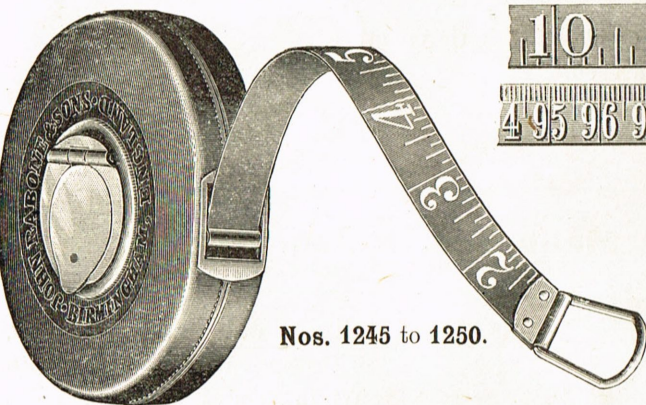
Flush Handle Rigida Tapes.

No. 1244.

No. 1244. These Tapes are the most accurate and reliable on the market, except only the Steel Tapes. They are fitted with the improved Flush Handle, as illustration. Whenever important measurements have to be taken, a Steel Tape should always be used, as the continued accuracy of others cannot be relied upon. Tapes, $\frac{5}{8}$ in. wide.

33	50	66	100 ft.
13/-	14/-	16/6	23/- each.

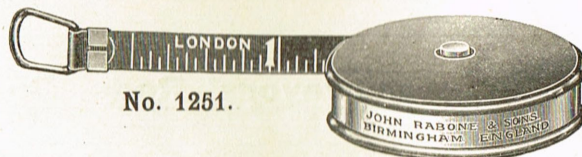
Steel Measuring Tapes are in constantly increasing demand, and are the only permanent standards, and should be used for taking all important measurements. Note our Patent method of marking the feet or metres, by which they stand out with the greatest possible clearness.



Nos. 1245 to 1250.



Showing method of marking.
Feet and Metres.
Same being sunk into surface of the steel.



No. 1251.



Nos. 1252 and 1253.

	Width of Tape.	Length	25	33	50	66	100 ft.	
No. 1245.	$\frac{3}{16}$ in., in Leather Case, Flush Handle		16/-	18/-	25/6	31/-	42/6	Divided on one side, Feet into inches in 8ths, with Links on reverse side.
" 1246.	$\frac{1}{2}$ " " " " "		18/-	21/-	29/-	37/6	52/6	
" 1247.	$\frac{1}{2}$ " " " " "		22/6	25/6	36/-	46/6	65/-	Divided on one side, Feet into inches in 8ths, with Metres into Millimetres on reverse side.
" 1248.	$\frac{3}{8}$ " " " " "		17/6	20/6	29/-	36/-	51/-	
" 1249.	$\frac{1}{2}$ " " " " "		21/-	25/6	34/6	46/6	63/-	Marked inches into $\frac{1}{16}$ ths on one side, and into Metres and Millimetres on reverse side. 3 ft. and 1 metre, 3/-; 5 ft. and 1½ metres, 4/6; 6 ft. and 2 metres, 5/-
" 1250.	$\frac{1}{2}$ " " " " "		25/6	30/-	42/6	55/6	78/-	
" 1251.	Spring Steel Tapes, in Nickel Plated, highly finished Cases.						Marked inches into $\frac{1}{16}$ ths on one side, and into Metres and Millimetres on reverse side. 3 ft. and 1 metre, 3/-; 5 ft. and 1½ metres, 4/6; 6 ft. and 2 metres, 5/-	
" 1252.	Spring Steel Tape in German Silver Case with Spring Stop. Tapes, $\frac{1}{4}$ in. wide, marked as No. 1251.						3 ft. and 1 metre, 5/-; 5 ft. and 1½ metres, 7/-; 6 ft. and 2 metres, 7/6	
" 1253.	Spring Steel Tape in German Silver Case with Spring Stop. Tapes, $\frac{3}{8}$ in. wide, marked as No. 1251.						3 ft. and 1 metre, 5/6; 6 ft. and 2 metres, 8/6; 9 ft. and 3 metres, 10/-; 12 ft. and 4 metres, 12/6; 18 ft. and 5 metres, 16/6	

SPECIAL QUALITY HAND SAWS.

We are now having made for us a special quality of Saws, of the very best material and workmanship, finished after the style of the American Saws. We have always believed that the Sheffield Saws were not to be beaten as regards wearing qualities, but hitherto the finish has not been all that could be desired. This defect we have remedied in our new line of Saws, and we put these before our customers with great confidence, anticipating a ready sale. Each Saw is fully warranted.

		22	24	26	28	30 in.
No. 1261.	Skew Back, as illustrated, Polished Beech Handles ...	9/-	10/6	11/6	12/6	14/- each.
„ 1262.	Straight Back, same quality and finish, Polished Beech Handles	8/6	10/-	11/-	12/-	13/6 „

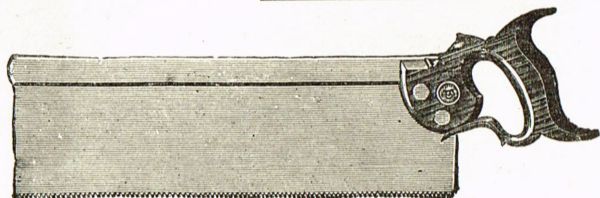
Saws—Warranted.

Being the very best Sheffield-made Blades, and bearing our well-known “Invicta” Trade Mark.



Nos. 1264—1266.

		12	14	16	18	20	22	24	26	28	30	36 in.
No. 1264.	Panel Saws, with 7, 8, 9, or 10 points to inch ...	4/3	5/3	6/-	6/9	7/6	8/-	9/-	9/6	—	—	— ea.
„ 1265.	Hand Saws, with 5, 5½, 6, or 6½ points to inch ...	4/3	5/3	6/-	6/9	7/6	8/-	9/-	9/6	—	—	„
„ 1266.	Half Rip Saws, with 4½ points to in., or Rip Saws, with 3½ or 4 points to in. ...	—	—	—	—	—	—	—	10/6	11/6	13/6	„
„ 1267.	Cheaper quality, Household Saw	3/-	3/6	4/-	4/3	4/6	5/-	5/6	6/-	7/-	—	„

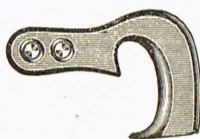
Best Quality Iron and Brass Back Saws.

		8	9	10	12	14	16 in.
No. 1268.	Best cast steel Brass Back Saws, heavy backs ...	10/-	10/-	10/-	11/6	13/-	15/- each.
„ 1269.	„ „ „ Iron Back Saws ¾	7/6	7/6	7/6	8/6	10/-	11/- „
„ 1270.	Iron Back, medium quality	6/-	6/-	6/-	7/-	8/-	9/- „
„ 1271.	Cheaper quality, for household use	4/-	—	4/3	5/-	5/6	— „

Pad Saw Blades.

For Pad Saw Handles, see page 34.

No. 1273.	To 11 in., -/5; 12 in., -/6; 13 in., -/7
-----------	--

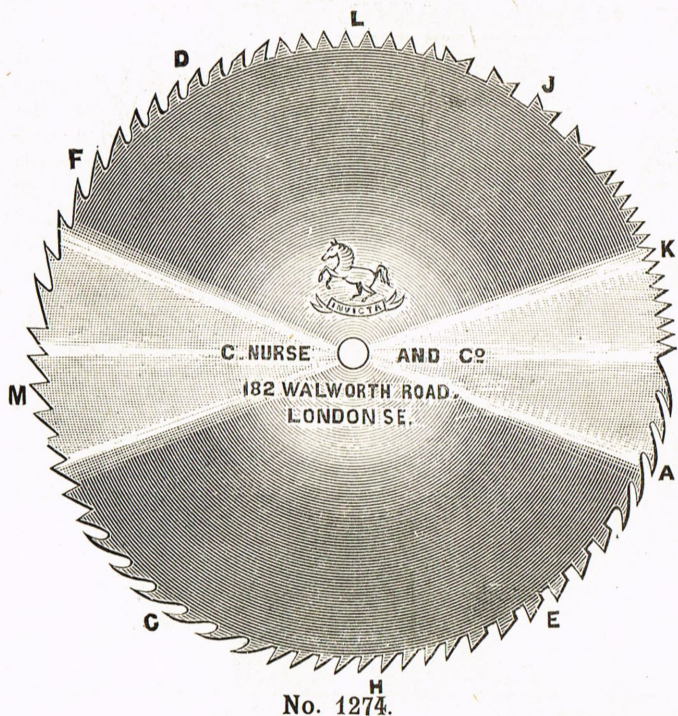
**Nest of Saws.**

No. 1298.	The Nest combines one each—Key-hole, Compass, and Table or Pruning Saw.
-----------	---

PRICES—

Complete...	...	...	...	...	5/- per set.
Pruning Blades, 18 in. long	...	...	...	...	2/3 each.
Compass Blades, 12 in. long	...	...	...	...	1/3 „
Keyhole Blades	...	...	...	...	-/10 „
Handles and Screws	...	...	...	...	1/3 „





Improved Machine-ground Best Cast-steel Circular Saws.

1274.	4	5	6	7	8	10	12	14 in.
							17	17 gauge.
	4/6	6/-	7/-	8/-	9/6	13/-	16/-	20/- each.
	16	18	20	22	24	26	28	30 in.
	16	15	14	14	13	13	12	12 gauge.
	24/-	30/-	36/-	42/-	48/-	56/-	66/-	76/- each.
	32	34	36	42	48	54	60	60 in.
	12	12	11	10	9	7	5	5 gauge.
	88/-	104/-	120/-	180/-	270/-	480/-	680/-	each.

If stronger than these gauges, will be charged extra.
If set and sharpened, -/1½ per in. extra.

In ordering Circular Saws, please give the following particulars:

Diameter of Saw.

Diameter of Centre Hole, diameter of Pin Hole, and distance of same from Centre Hole.

Thickness per Stubbs' Wire Gauge.

Shape of Teeth to our Series.

Space or distance of Teeth, or number of Teeth in each Saw.

If to cut hard or soft wood.

Patent Endless Band Saws.

No. 1275. Best Quality Band Saws, brazed, set and sharpened ready for use.

$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$ in. wide.
2/3	2/3	2/6	3/-	3/3	3/6	3/9	4/6	5/3	6/6 per yd.

Re-brazing Band Saws to $\frac{3}{4}$ in. wide, 1/-; 1 in., 1/3; $1\frac{1}{4}$ in., 1/6 each join.

Setting and sharpening, -/6 per yard.

Pit Saws.



No. 1276. Best cast steel Pit Saws, 6 ft. × 11 in. heel × $\frac{3}{4}$ in. space, 24/-.

Ditto, 7 ft. × 11 in. × $\frac{3}{4}$ in., 30/- each.

Ditto, 6 ft. 6 in. × 12 in. heel × $\frac{3}{4}$ in. space, 27/- each.

Boxes and Tillers for Pit Saws, 4/6 each.



Cross-cut Saws.

No. 1277.

No. 1277. Best cast steel Cross-cut Saws, 4 ft., 12/6; 4 ft. 6 in., 14/6; 5 ft., 16/6; 5 ft. 6 in., 18/6; 6 ft., 22/6 each.
 „ 1279. Turned Ash Handles for Nos. 1277 or 1280, 1/3 per pair.
 „ 1280. Best cast steel Cross-cut Saws with Lightning Tooth, 4 ft., 14/-; 4 ft. 6 in., 16/-; 5 ft., 18/-; 5 ft. 6 in., 20/6; 6 ft., 25/6 each.

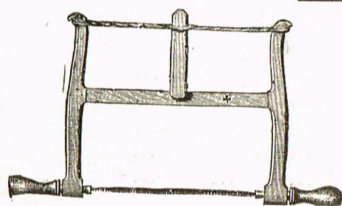
Bow Saws and Frames.

Nos.

1293

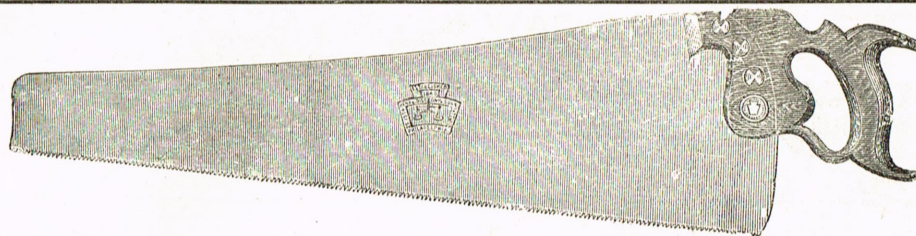
and

1294.



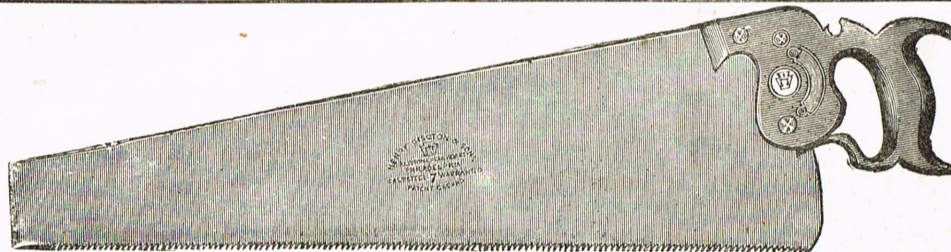
No.		10	12	14	16 in.
No. 1293.	Beech Handled ...	8/-	9/-	9/9	11/6 each.
„ 1294.	Boxwood Handled ...	9/-	10/-	10/9	12/6 „
„ 1296.	Blades for same ...	-/6	-/6	-/7	-/8 „
„ 1297.	C.S. Turning Webs, 18 in., -/9; 20 in., -/10; 22 in., 1/-; 24 in., 1/3; 26 in., 1/6; 28 in., 1/9; 30 in., 2/- each.				

Henry Disston & Sons' Celebrated American Saws.



No. 1283. No. D8. This Saw has all the latest improvements in Hand Saws, and combines the popular "Skew-back," the peculiar-shaped Butt or Heel, which, with the new screws, makes it almost impossible to work loose from the Handle. No. D8, Skew-back Saw, Apple Handle, Polished Edge, 5 Screws.

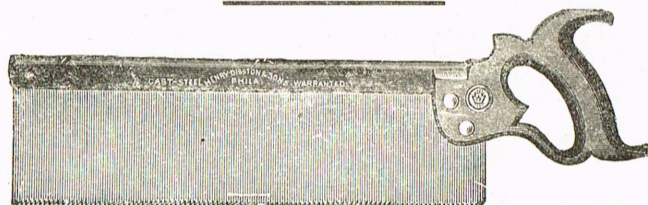
20 in., 11/3; 22 in., 12/3; 24 in., 13/3; 26 in., 13/9; 28 in., 15/9 each.



No. 1284. No. 8. Best quality Hand Saw, similar in quality and finish to the favourite pattern D8, but made with a straight back in place of the Skew-back.

20 in., 10/9; 22 in., 11/9; 24 in., 12/9; 26 in., 13/3; 28 in., 15/3 each.

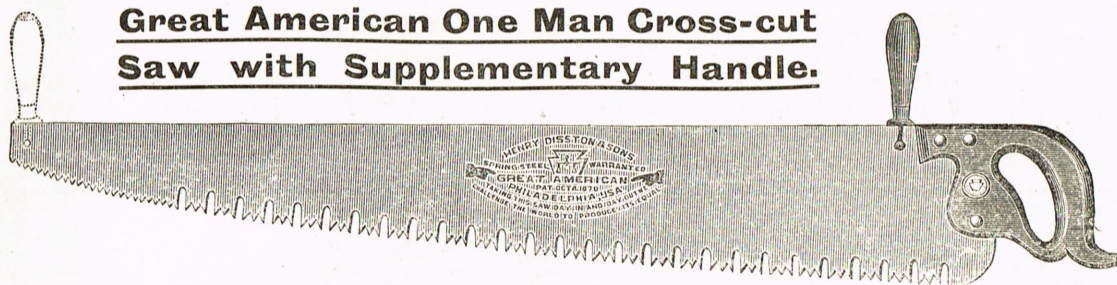
Back Saws.



Nos. 1285 and 1286.

		Sizes	...	...	...	...	8	10	12	14	16 in.
No. 1285.	No. 4.	Disston's Blue Steel Back	...	...	...	...	8/-	8/9	9/9	11/-	12/- each.
" 1286.	" 5.	" Brass Back	...	...	...	...	11/6	12/-	13/3	14/6	17/- "

Great American One Man Cross-cut Saw with Supplementary Handle.



No. 1287.

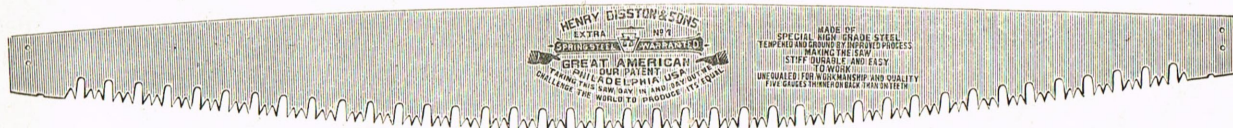
3 ft. 3 ft. 6 in.
14/3 16/6

4 ft. 4 ft. 6 in.
19/- 21/6 ea.

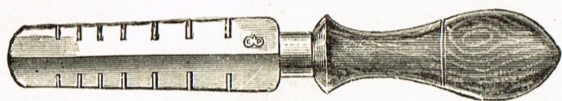
ExtraSupplemen-
tary Handles for
above, 1/- each.

"Great American" Cross-cut Saws with Climax Handles.

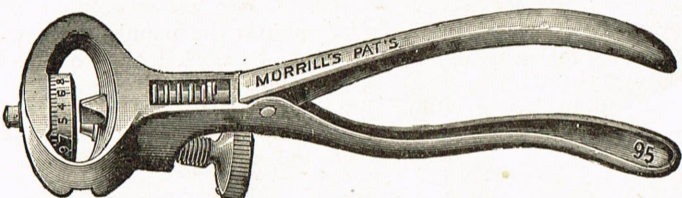
This Saw is one of the BEST CROSS-CUT Saws ever offered to the public. The most important peculiarities are as follows:—The outer teeth of each section are as sharp and effective cutting teeth as the teeth of a rip saw, while the middle or regulating tooth determines the extent of the cut in proportion to the bevel of the said tooth. The more you bevel the centre tooth, the faster the saw cuts; whereas, if the centre tooth be filed square, the saw takes less hold on your log, and requires less muscle to drive it. Thus you can regulate your saw to suit the strength of the parties working it.



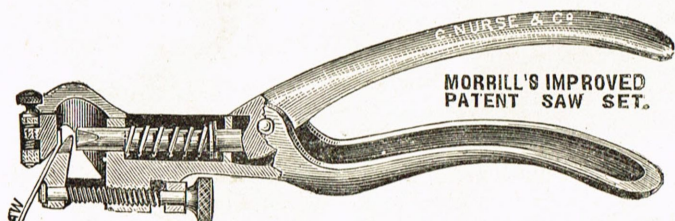
		4	4½	5	5½	6 ft.
No. 1288.	"Great American" Saws, with Climax Handles	20/6	23/-	25/6	27/6	30/- each.
" 1289.	Special "Great American" Saw Files to suit above, 8 in., 1/6; 10 in., 2/- each.					
" 1289½.	Extra Climax Handles for above, 2/3 per pair.					

SAW SETS.

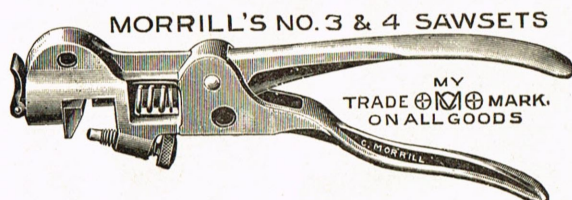
- No. 1300. Strong Black Pit or Cross-cut Saw Sets, 6 Gates, 2/- each.
 „ 1301. Handled Saw Sets, Beech, 1/4; Boxwood, 1/8 each.

**Morrill's Saw Sets.**

- No. 1306. No. 95. Improved Special Pattern, with Bevelled Circular Disc., 7/6 each. Length, 6 3/4 in.



- No. 1307. No. 11. Morrill's Improved Perfect Saw Set, for Hand, Back, or Band Saws, 7/6 each. Length, 6 3/4 in.



- No. 1308. No. 3. For Cross-cut and Circular Saws from 14 to 20 Gauge, 10/6 each. Length, 9 in.
 „ 1309. No. 5. For Circular Saws from 6 to 14 Gauge, 17/6 each. Length, 15 in.

No. 1310. Morrill's Special Saw Set. This pattern is an improvement upon pattern No. 95. The Anvil is set on an incline, which allows of a stronger plunger being used. The Gauge Screw is provided with a Lock Nut, which prevents the Screw working loose when setting the Saw. Other "special" features are an enclosed plunger and a dirt and dust-proof body. Length, 6 3/4 in. Price, 7/6 each.

Disston's Monarch Saw Set.

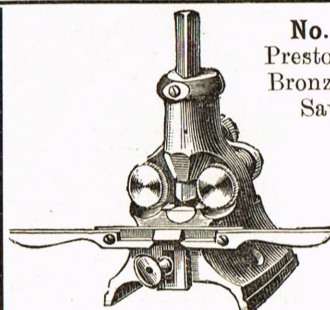
No. 1311. This Saw Set differs in construction and principle from any Set yet offered. The die is rounded, fitted to the Set with a screw, and finished with four bevelled edges of different depths, suitable for adjustment to set teeth of varying sizes. In cases where large teeth are to be set, the die must be adjusted to allow the edge having the deepest bevel to be used. Price, Japanned, 4/6 each.

Disston's Triumph Saw Set.

No. 1312. The principal improvement in the Triumph Saw Set consists in the introduction of two plungers in place of one only, the lower plunger holding the saw rigidly in position, whilst the upper plunger sets the teeth of the saw. Price, No. 28, for Hand and Back Saws, 6/-; No. 18, for Small Circular Saws, 8/6; No. 8, for Cross-cut and Circular Saws, 10/-.

The Taintor Positive Saw Set.

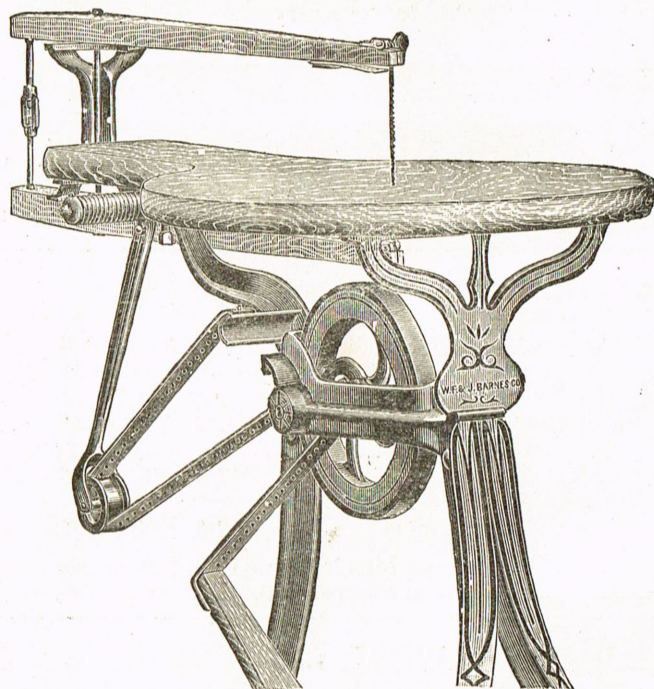
No. 1313. The Taintor Positive Saw Set consists of a frame to which are attached two movable handles, an anvil, and punch. A spring holds the handles apart. In use the upper handle clamps the saw against the side (lower part) of the anvil. The lower handle carries the punch which forces the tooth against the face of the anvil. The difference of angle between the face and side of the anvil determines the set of the tooth. The faces of the anvil are numbered, so that any setting may be repeated. Price, 5/6 each.



No. 1314.
 Preston's Patent
 Bronzed Punch
 Saw Set,
 13/6 ea.

Barnes' Improved Foot-Power Scroll Saw.

No. 1325.



No. 1325. This is a very powerful Saw, starting instantly the treadle is pressed down, very easy motion, and with reasonable practice will cut Pine Wood, 3 in. thick, at the rate of 1 ft. per minute, or Walnut, 1 in. thick, 2 ft. per minute; other woods and thicknesses in proportion.

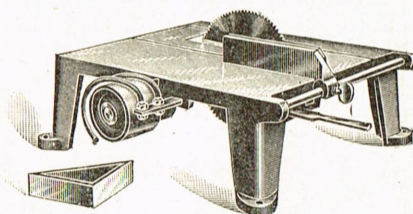
The space under the arm from the Saw is 24 ins. and the Saws are 8 in. long. The Table and Arm, are of Hard Maple, and the Frame is cast iron, strong yet light.

The Balance Wheel runs on a steel arbor.

We include one dozen Saws with each Machine. Extra Saws, 4/- per doz.

This Machine is designed for practical service in the workshops of Cabinet Makers, Carpenters, and Builders, and other workers in wood.

Price, £8 10 complete. Weight, 56 lb. F.O.R. Cased Free.

"Imperial" Type Circular Saw Tables.

8 in. Imperial Saw Table.

For small work in Toy making shops, Picture-framing shops and for similar purposes, three sizes of small saw tables are made which have been supplied in large numbers and have given thorough satisfaction.

The Benches are standardized throughout and have carefully planed cast-iron tables, fast and loose pulleys with belt shifting gear (except on No. A) and a sliding fence. A grooved pulley can be supplied instead of fast and loose pulleys and a reduction in price made as quoted.

The Bed is grooved for a Mitre Fence which can be supplied at a slight extra charge.

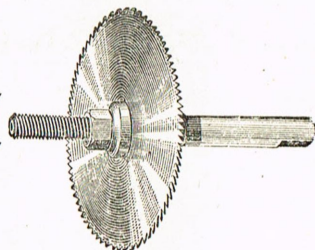
*Types A and C have a table rising at one end, making them a most useful machine tool for many classes of work.

No.	Size of Table. in.	Size of Pulleys Fast and Loose. in.	Size of Saw in- tended to be used. in.	Price. £ s. d.	Extra for Mitre Fence.	Extra for Saw.	Reduction if grooved Pulley only supplied.	Depth of Cut. in.
*A	12 × 9	2½	6	4 0 0	10/-	7/-	Grooved Pulley only	1¾
B	14 × 12	2¾ × 1	8	4 15 0	10/-	9/6	5/-	2½
*C	20 × 16	3¼ × 1¼	10	10 10 0	10/-	13/-	7/-	3¾

Owing to present fluctuations of prices we are not showing our usual variety of Saw Benches and Band Saws. We shall be pleased to quote for these on receipt of specification of customers' requirements.

Circular Saw

With Saws and Emery

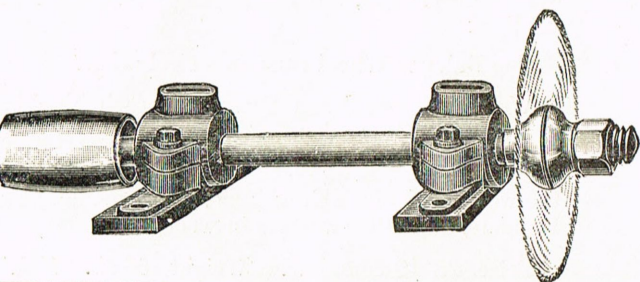


Lathe Spindles,

Wheels to suit.

		1	2	3	4	5
No. 1332.	Spindle	$5 \times \frac{5}{16}$ in., 2/3	$5 \times \frac{3}{8}$ in., 2/6	$6 \times \frac{1}{2}$ in., 3/6	$7 \times \frac{5}{8}$ in., 4/-	$8 \times \frac{3}{4}$ in., 5/6
„ 1333.	Circular Saw, to suit	3 in., 4/-	4 in., 4/6	5 in., 6/-	6 in., 7/-	8 in., 9/6
„ 1334.	Emery Wheel, to suit	$3 \times \frac{1}{2}$ in., 3/3	$4 \times \frac{1}{2}$ in., 4/3	$5 \times \frac{3}{4}$ in., 7/-	$6 \times \frac{3}{4}$ in., 9/-	$8 \times \frac{3}{4}$ in., 14/-

Circular Saw Spindles.



No. 1336. Steel Spindle, Cast Iron Blocks, Pulley and Flanges, with Composition Metal Bearings.

Size Nos.	1	2	3	4
Length of Spindle	17	20	23	26 in.
Diameter of Spindle	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$ „
Prices	37/-	47/6	65/-	76/- each.

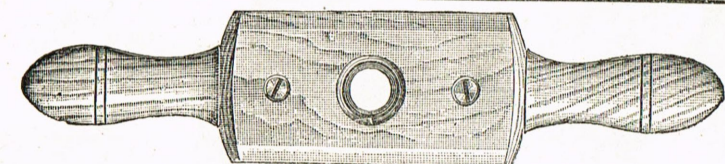
No. 1337. Ditto, with Fast and Loose Pulley 41/- 52/6 77/- 89/6 „

For Prices of Circular Saws to suit above, see page 60.

Scraper Blades and Sharpeners.

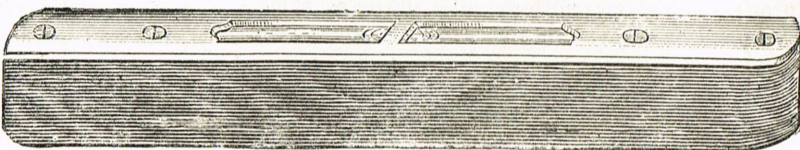
- No. 1338. Best Steel Scraper Blades, 4 in., -/6; 5 in., -/8; 6 in., -/10 each.
 „ 1339. Cabinet Makers' Curved Steel Scrapers, 1/- each.
 „ 1340. Handled Steels for Sharpening Ditto, -/9 each.

Screw Boxes and Taps.



No. 1341.	Best English made, with Solid Taps ...	$\frac{1}{2}$ -	$\frac{5}{8}$ -	$\frac{3}{4}$ -	$\frac{7}{8}$ -	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
		6/-	6/6	7/-	7/6	8/6	9/6	10/6	11/6 each.

SPIRIT LEVELS.



No. 1345. Walnut, Brass-plated Top, 4 in., -/11; 6 in., 1/2; 8 in., 1/6 each.

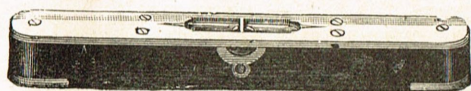
No. 1346. Ditto, ditto, Tipped Bottom, 6 in., 2/-; 8 in., 2/6; 10 in., 3/- each.

No. 1347. Walnut, Fancy Brass-plated Top, Tipped Bottom, 8 in., 4/-; 10 in., 4/6; 12 in., 5/6 each.

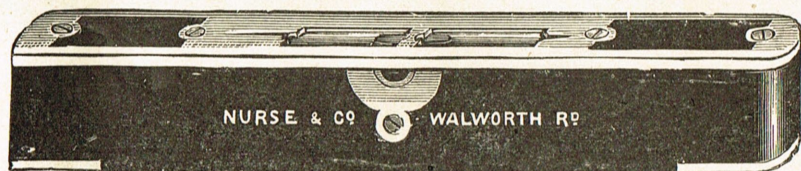


No. 1348. Ebony, Plated Top, Tipped Bottom; a very cheap Level, 6 in., 3/-; 8 in., 3/6; 10 in., 4/- each.

Spirit Levels—continued.

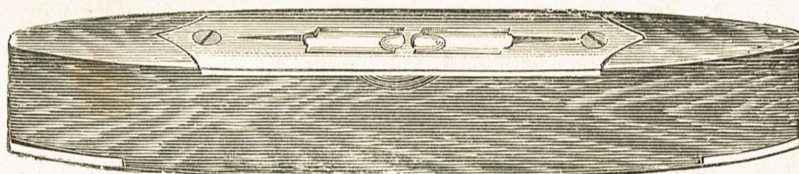


No. 1349. Ebony, Tipped Bottom, Brass Side Views, 8 in., 4/-; 9 in., 5/-; 10 in., 5/6; 12 in., 6/6 each.



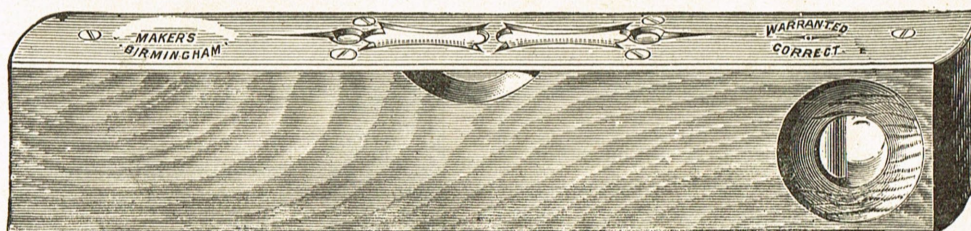
No. 1350. Ebony, Ornamental Plated Top, Tipped Bottom, Brass Side Views.

8 in., 5/-; 9 in., 6/-; 10 in., 7/-; 12 in., 8/6 each.



No. 1356.

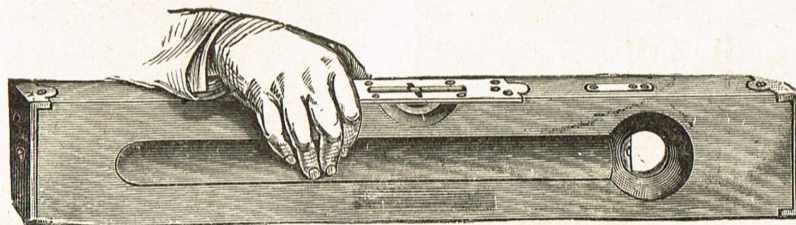
							6	9	12 in.
No. 1356.	Masons' Tapered Rosewood Levels	...	...	...	...	...	2/6	3/6	4/- each.
" 1357.	Ditto Plumb and Level	...	...	...	...	...	3/3	4/3	4/9 "
" 1358.	Best Boxwood Rule Marked Plumb and Level	...	...	...	...	...	3/9	4/3	4/9 "



No. 1359. Walnut Brass-plated Plumb and Spirit Levels, with Tipped Bottom, 8 in., 4/6; 10 in., 5/6; 12 in., 6/6 each.

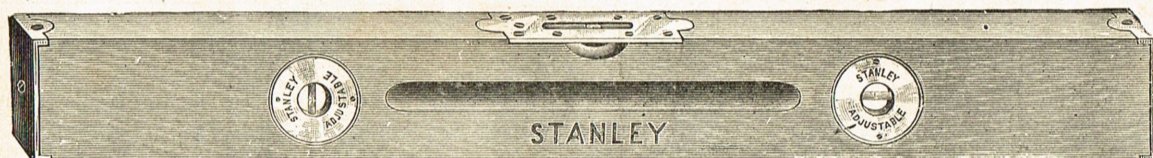
Patent Improved Adjustable Plumb and Spirit Levels.

No. 1362-1365.



							24	30 in.
No. 1362.	Brass Arch Top Plate, Full Brass Tipped, with Side Views	...	...	...	...	...	9/6	10/6 each.
" 1363.	Ditto ditto ditto and Brass Side Views	...	...	...	...	...	11/-	12/- "
" 1364.	Ditto ditto ditto Mahogany Stock	...	...	...	...	...	12/6	14/- "
" 1365.	Ditto ditto ditto with Mahogany Triple Stock	...	...	...	...	...	16/6	18/- "

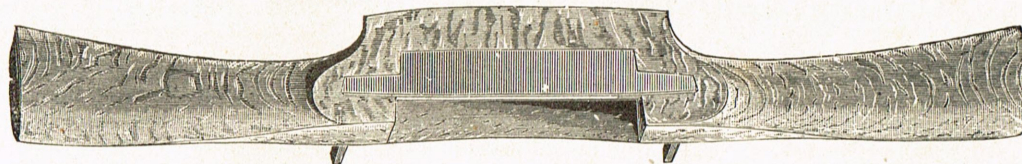
Stanley's Patent Duplex Plumbs and Levels.



These Levels have the ordinary form of levelling glass set in the top surface of the stock. For any uses where an observation of the glass sideways may be found convenient, an additional levelling glass is set in the side, at the opposite end from the Plumb. Both glasses are protected by Brass Discs, can be seen from either side, and are inserted in the Level with the least possible removal of wood from the stock.

No. 1369. No. 25 Patent Adjustable Plumb and Level, Mahogany, Arch Top Plate, Improved Duplex Side Views, Polished, Tipped, 24 in., 19/- each; 30 in., 20/- each.

SPOKESHAVES—Wood and Iron.

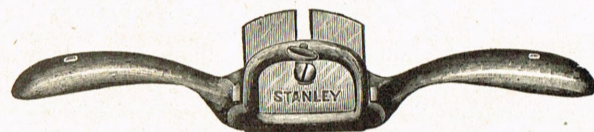


								$1\frac{1}{2}, 1\frac{3}{4},$ or 2	$2\frac{1}{4}$ or $2\frac{1}{2}$	3	$3\frac{1}{2}$	4 in.
No. 1387.	Beechwood	...	...	...	...	...	...	2/-	2/2	2/6	2/10	3/3 each.
„ 1388.	Boxwood	...	...	...	...	...	...	2/9	3/-	3/6	4/2	4/9 „
„ 1389.	Boxwood, Brass-plated on face	...	...	...	...	...	...	—	3/9	4/3	—	„
„ 1390.	Coachmakers' Beechwood	...	...	...	...	...	...	—	4/-	4/6	5/-	5/6 „



No. 1393. Double Iron Spokeshave, Raised Handle, 10 in. long, 2½ in. Cutter, 2/3 each.
Extra Irons, -/8 each.

No. 1394. Adjustable Mouth Spokeshave, Raised Handle, 10 in. long, 2½ in. Cutter, 3/- each.
Extra Irons, -/8 each.

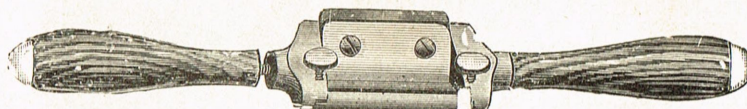


Circular Spokeshave.



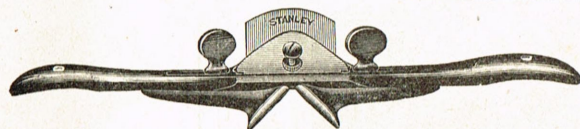
No. 1397. Will work in a smaller circle than any other shave, the angle of knife being so arranged that it cuts instead of scraping the grain of the wood. Either Handle can be removed to work in cramped places. 5/6 each.

Improved Four-faced Spokeshave.



No. 1398. This Shave has a throat regulator which will present to the knife four faces; one flat, two oval or convex, and one concave. With either face a wide or narrow throat may be had. The makers claim that "All that any other shave will do this will do also, and that then it will do some more." Price, 9/6

Patent Chamfer Spokeshave.

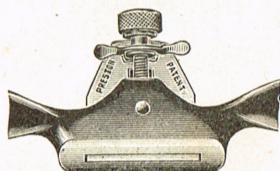


This tool can be easily adjusted by means of the thumbscrews attached to the Guides, and will chamfer an edge any desired width up to 1½ in.

No. 1399. No. 65. Raised Handle, 1½ in. Cutter, 3/9

Preston's Patent Adjustable Spokeshaves.

Round Face.
Nos. 1404 and 1405.



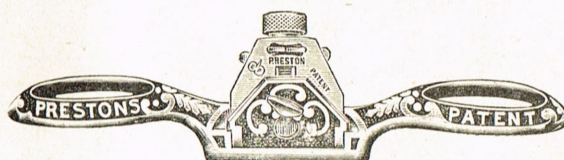
No. 1402. Patent Malleable Iron Shave, Hollow Raised Handles, Japanned, 10 in. long, Flat Face.

Irons are adjustable by means of Milled Nut, and are fitted with Improved Wing Adjuster for setting Iron sideways. Price, 6/9 each.

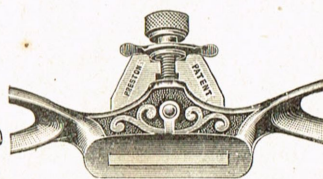
No. 1403. The same Shave, but Nickel Plated, 8/- each.

„ 1404. The same Shave, but with Round Face. Price, 6/9 each, Japanned.

„ 1405. Ditto, Round Faced and Nickel Plated, 8/- each.



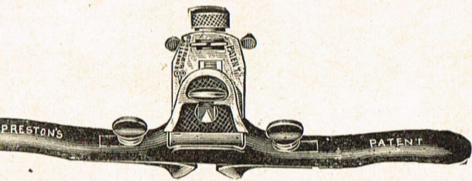
Nos. 1402 and 1403.



Flat Face. Nos. 1402 and 1403.

Spokeshaves—continued.

Patent Adjustable Stop Chamfer Shave.



No. 1411. This tool makes its own stop; this is a great advantage, as both the chamfer and stop are made at the same time, thus dispensing with the use of the chisel. The Fences and the Top Plate of the Cutting Iron are adjusted and fixed by means of the Thumb screws.

Price, 9/6 each.

The Improved Circular Sash Router.

No. 1412. Has two Cutting Irons, and will work right or left. It is to work with either $1\frac{1}{2}$ in., $1\frac{3}{4}$ in., or 2 in. by $\frac{5}{8}$ in. Sash Planes, or Lamb Tongue or Ovolo Mouldings, and can be made to work any pattern of these mouldings. Price, 10/- each. Special runs, 2/6 extra. When ordering send size and pattern of moulding required.

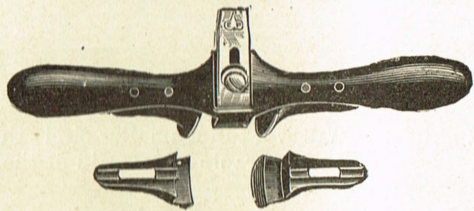


Common Ovolo Routers.

No. 1413. A similar Router to above, made to work Common Ovolo Mouldings, that is, working both "on" and "off" the same. Prices: $\frac{1}{4}$ in., 10/9; $\frac{3}{8}$ in., 12/-; $\frac{1}{2}$ in., 12/9; $\frac{5}{8}$ in., 13/6; $\frac{3}{4}$ in., 14/- each.

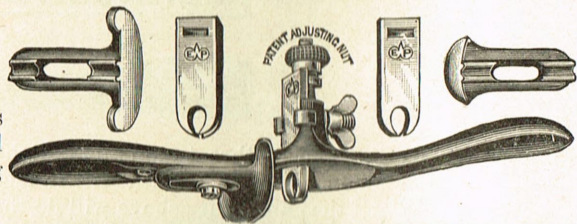
The Improved Circular Rabbeting and Fillister Router.

No. 1414. Is an accompanying tool to the Sash Router, and has one cutting iron and two pairs of Adjustable Fences, which enable it to be used as a Rabbeting or Moving Fillister Router. These Fences slide along above, and are adjustable for working out the Rabbet on various thicknesses of wood. The Shouldered, or Fillister Fences are adjustable from $\frac{1}{8}$ in. to $\frac{3}{4}$ in. Price, 8/- each.

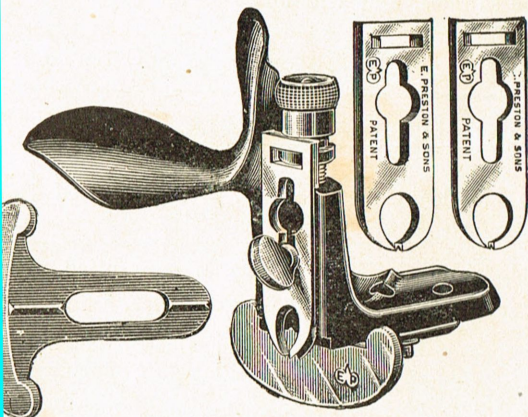


Improved Circular Quirk Router Patent Adjustment.

No. 1420. This Tool is an improvement on former patterns, as the cutting irons are readily adjusted by means of the Milled Nut. The Milled Nut also acts as a stop, and prevents the Cutting Iron from being pulled back when in use. Price, 13/6 each.



Patent Adjustable Iron Quirk Routers.



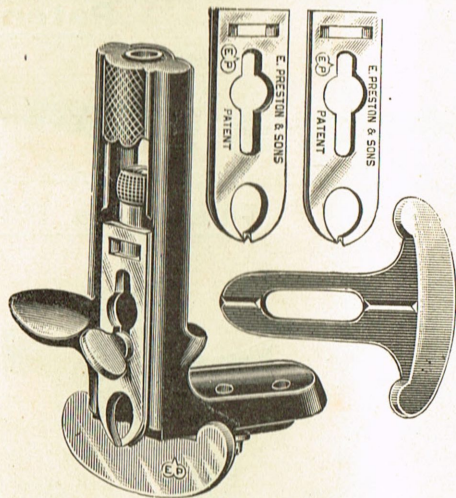
No. 1421.

Nos. 1421 and 1422. Japanned with Bright Parts.

Two new and novel forms of Quirk Routers with three Cast Steel Cutting Irons and two Fences, one for straight and one for circular work.

The Cutting Irons are readily adjusted by means of the Milled Nut.

Either pattern, price 13/6 each.



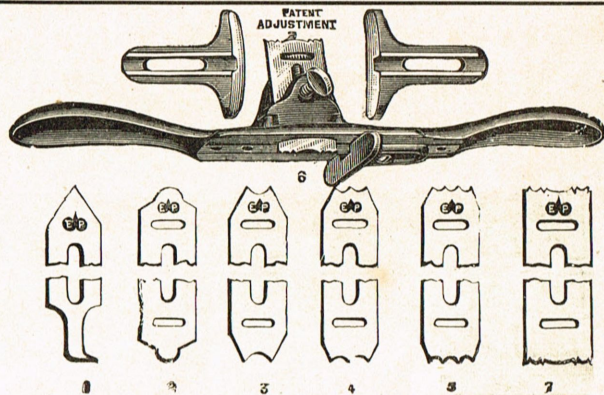
No. 1422.

Preston's Improved Patent Hand Reeder & Moulding Tool.

No. 1418. The Irons of this Tool are adjusted by means of a Milled Nut. All the Cutters are made double-ended, as shown in the illustration.

Price: complete, with 6 Cutters and 3 Fences, 16/-

Post free, -/6 extra.

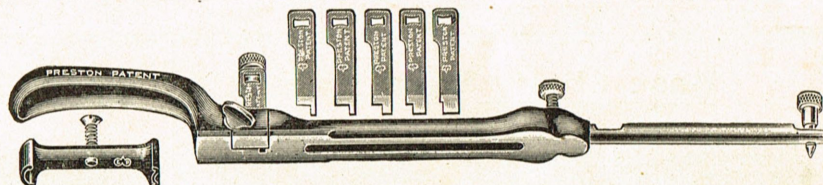
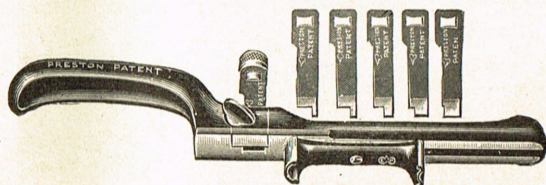


Patent Lining or Stringing Routers.

No. 1423. This will be found a very useful tool to Cabinet Makers and other Wood Workers for inlaying "Strings," etc.

The tool is sent out with Six Cutters varying in width from $\frac{1}{16}$ in. to $\frac{3}{8}$ in. It has one Fence, which is movable and reversible to suit different sweeps of wood.

On very cross-grained wood it will be preferable to gauge lines the width of the "Band" before using the broad irons. Price, 8/9 each.

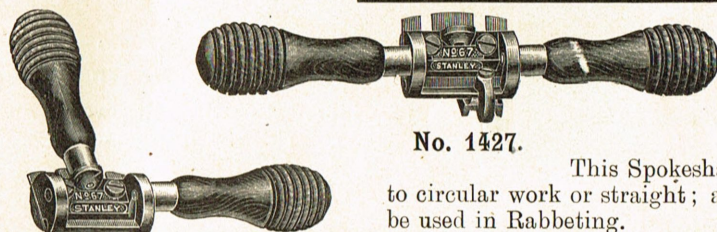


The Inlaying Router.

No. 1424. This tool is similar to No. 1423, and will do the same work, but is supplied, in addition to the Six Cutters, with a round Adjustable Sliding Rod, which is provided with two screwed holes and a removable pointed Screw Pin. This pin may be inserted in either hole and the rod adjusted according to desire.

When using the tool for curves, the Fence should be entirely removed. Price, 12/- each.

Stanley's Universal Spokeshave.



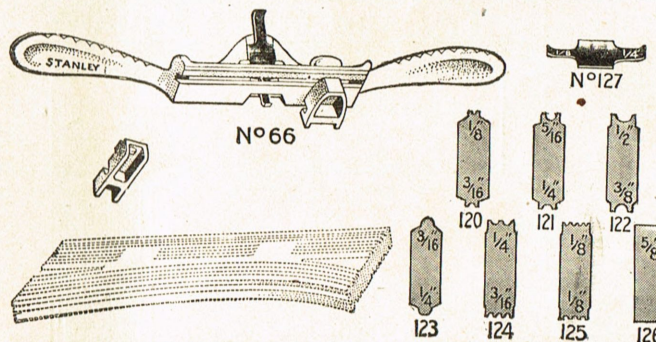
No. 1427.

No. 1427. Both Handles are detachable, and either of them can be screwed into a socket on top of the Stock, thus enabling the owner to work into corners or panels, as no other spokeshave can do.

No. 67s. Universal Spokeshave ... 9/6 each.

This Spokeshave has two detachable Bottoms, adapting it equally well to circular work or straight; and, by means of a movable Width Gauge, the Tool can be used in Rabbeting.

Stanley's Universal Hand Bearer.



No. 66

No. 127

For beading, reeding, or fluting straight or irregular surfaces this tool is invaluable to woodworkers.

Six Superior Steel Cutters go with each tool.

The cutter is firmly clamped to the stock. A gauge with long, straight bearing surfaces is used in ordinary work, and a gauge with oval bearing surfaces is used for curved or irregular forms of work.

No. 1428. No. 66A. Iron Stock with Six Steel Cutters, price, 9/- each.

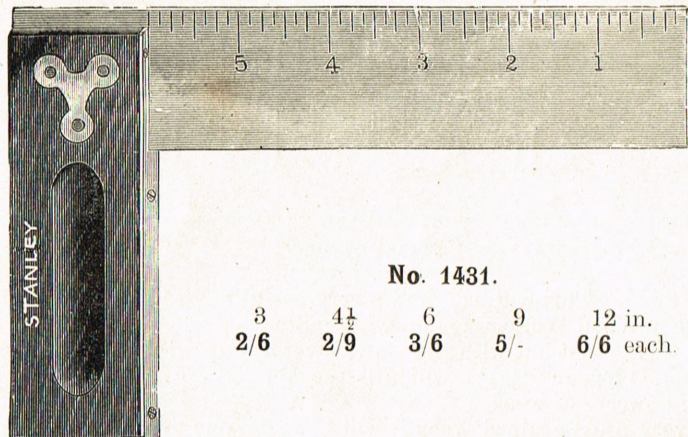
These Hand Bearers are now sent out Nickel Plated and with a somewhat larger handle, nicely reeded, so as to give a better grip to the hand.

Adjustable Box Scrapers.

No. 1429. Adjustable Box Scrapers, with 2 in. Cutters, 4/9 each.

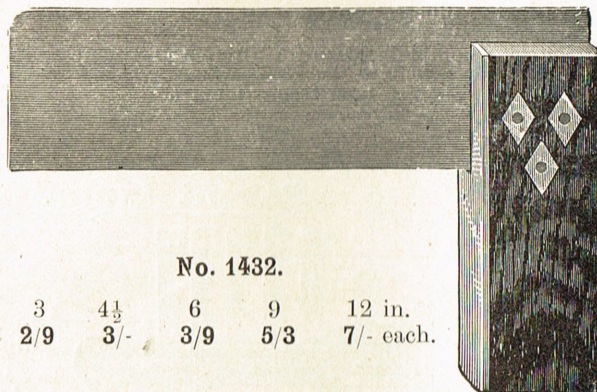
Extra Cutters for same ... 1/3 each.



SQUARES.Rosewood Try-Squares.

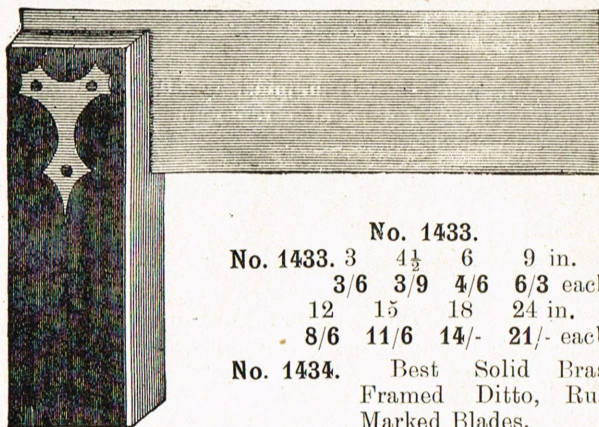
No. 1431.

3	4½	6	9	12 in.
2/6	2/9	3/6	5/-	6/6 each.

Sheffield-made Rosewood Squares.

No. 1432.

3	4½	6	9	12 in.
2/9	3/-	3/9	5/3	7/- each.

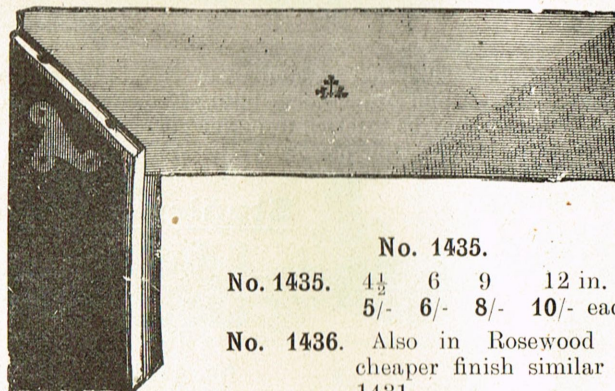
Best Ebony Squares.

No. 1433.

No. 1433.	3	4½	6	9 in.
	3/6	3/9	4/6	6/3 each.
	12	15	18	24 in.
	8/6	11/6	14/-	21/- each.

No. 1434. Best Solid Brass
Framed Ditto, Rule
Marked Blades.

3	4½	6	9	12	15	18	24 in.
5/-	5/9	6/9	10/-	12/6	17/6	21/-	37/6 each.

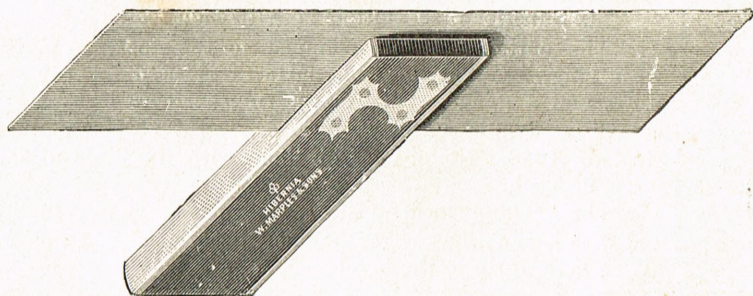
Ebony Try and Mitre Squares.

No. 1435.

No. 1435.	4½	6	9	12 in.
	5/-	6/-	8/-	10/- each.

No. 1436. Also in Rosewood in
cheaper finish similar to
1431.

3/9	4/6	6/-	8/- each.
-----	-----	-----	-----------

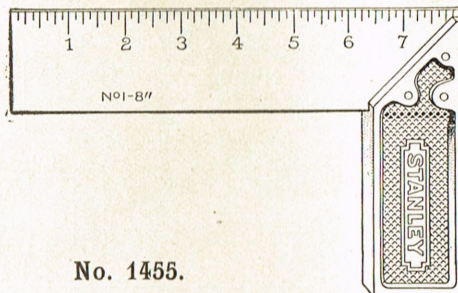
Mitre Squares.

No. 1437. Rosewood Dia-
mond Plated.

8 in.	...	...	5/3 each.
10 "	...	...	6/3 "
12 "	...	...	7/3 "

No. 1438. Best Ebony.

8 in.	...	...	8/6 each.
10 "	...	...	9/3 "
12 "	...	...	11/- "
14 "	...	...	12/6 "

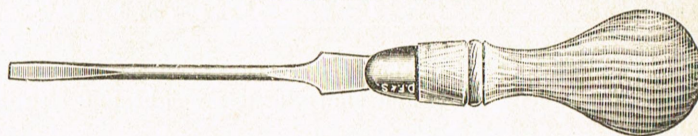
Try and Mitre Square.

No. 1455.

Nickel Plated Handle. Square inside and
out. Graduated Steel Blade.

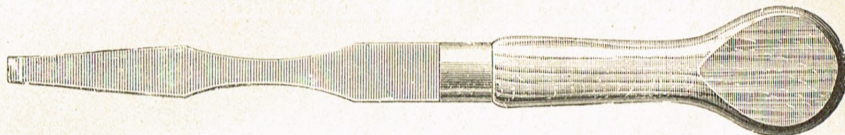
4	6	8 in.
3/6	4/3	5/- each.

Turnscrews.



Nos. 1496 and 1497.

		Length of Blades									
		2	3	4	5	6	7	8	9	10 in.	
No. 1496.	Machine Oval Beech Handled Cabinet Turnscrew	-/10	-/10	-/11	1/2	1/4	1/6	1/9	2/-	2/3 each	



No. 1498.

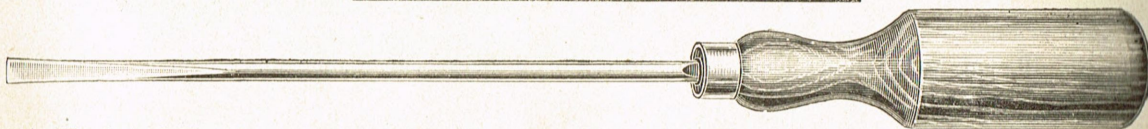
		Length of Blades									
		3	4	5	6	7	8	9	10	12 in.	
No. 1498.	London Pattern Flat Beech Handles	1/-	1/2	1/4	1/8	2/-	2/3	2/6	3/-	3/6 each	



Nos. 1499 and 1500.

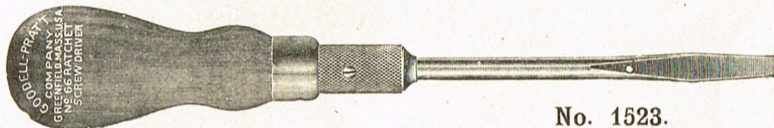
		Length of Blades									
		3	4	5	6	7	8	9	10	12 in.	
No. 1499.	Best Worked Oval Beech Handled Cabinet Turnscrews	1/6	1/9	2/-	2/6	3/-	3/3	3/9	4/-	4/9 each	
„ 1500.	Best Worked Oval Boxwood Handled ditto	2/-	2/3	2/6	3/-	3/6	4/-	4/6	4/9	5/6 „	

Electricians' Turnscrews.



No. 1501. Hardwood Handles, with best Steel Blades, 4 in., -/8; 6 in., -/10; 8 in., 1/-; 10 in., 1/3; 12 in., 1/6 each.

Ratchet Screwdriver.



No. 1523.

No. 1523. Blades are made of tool steel, tempered, and the ratchet teeth are cut directly in the stem of the blade. The dogs and springs of the ratchet mechanism are made of tool steel, and tempered. Changes from right to left are effected by turning the milled ferrule one way or the other.

1½ in. price, 4/-; 2 in., price, 4/3; 3 in., price, 4/6.



No. 1524.
No. 553s.



Open.

Pocket Screwdrivers.

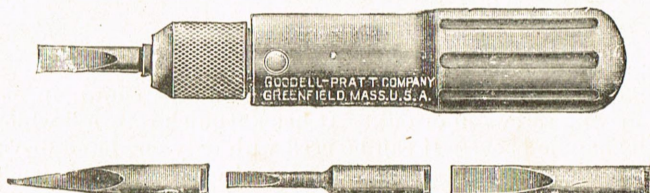
No. 1524. Prices.

No. 553A. Handle, ¼ in. diam., blade 2¾ in. long, weight, ½ oz., 1/6.

No. 553B. Handle, ⅜ in. diam., blade 3 in. long; weight, 1½ oz. Price, 2/-
Extra blades, -/7

This Tool is made from Steel tubing, knurled, and nickel plated. The butt of the blade fits a solid lock in the tube, preventing it from turning, and is held from coming out by a slight turn of the chuck.

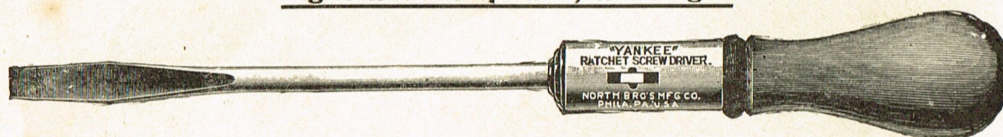
Pocket Screwdriver Set.



No. 1525. This little Pocket Screwdriver Set, with three blades of assorted sizes, and one reamer for making or enlarging holes, will be found most convenient and attractive. The tool is fully polished, nickel plated, and buffed. It is 3¼ in. long closed, and weighs 4 oz. Price, 5/9 each.

"YANKEE" RATCHET SCREWDRIVERS.

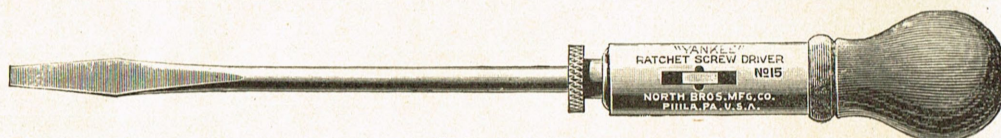
The construction of ratchet and pawls is such that neither can bend nor break, and permits a very compact arrangement, making the tool more convenient in size and shape, of less weight, and also the making of smaller sizes of tools than have heretofore been made.

"Yankee" Ratchet Screwdriver, No. 10.Right and Left Hand, and Rigid.

No. 1508.

Made in the following sizes :

2	3	4	5	6	8	10	12 in.
2/6	2/9	3/6	3/9	4/3	4/9	5/9	6/3 each.

"Yankee" Ratchet Screwdriver, No. 15.Right and Left Hand, and Rigid, with Finger Turn on Blade.

No. 1509.

Similar to No. 10, but with thinner blades, the blades in all sizes being $\frac{7}{32}$ in. diameter. Specially useful to electricians.

2	3	4	5 in.
2/10	3/-	3/2	3/4 each.

"Yankee" Spiral Ratchet Screwdrivers, Nos. 35 and 30.Right and Left Hand.Nos.
1510
and
1511.

The advantages of this over similar tools are in its simplicity, compactness, strength, durability, and that it can be used as a rigid Screwdriver in any part of its length, as well as to push or ratchet screws in or out.

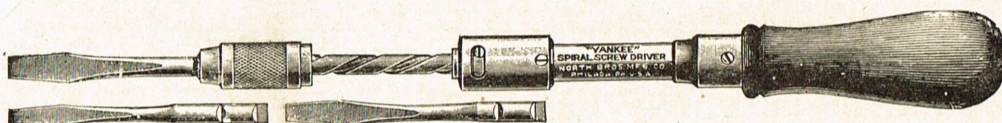
No. 1510.	No. 35.	Length, with Bit in Chuck—closed,	9 in.,	extended,	12½ in.	Price, with 3 Bits,	9/- each.
" 1511.	" 30.	" "	" "	" "	13½ "	" "	12/- "
" 1514.	" 31.	" "	" "	" "	17½ "	" "	15/6 "

"Yankee" Quick Return Spiral Ratchet Screwdriver.

Nos. 1518 and 1518½. No. 130. Price, 13/6 each. No. 131. Price, 18/- each.

This is the regular pattern No. 30 with a spring added in handle as shown in cut, which causes the handle to come back for the next push, in driving screws in or out. It has a "quick return," which is more rapid as well as more convenient in use than pulling the handle back. It can be used with only one hand driving the tool, as the spring keeps the bit in position while it forces the handle back for the next stroke. When extended the extreme length with bit in chuck is 20½ in.; when closed it measures 15 in.

No. 1518½ or No. 131 is the same as No. 31, but with spring in handle. Full length when extended 24 in. Price, 18/-

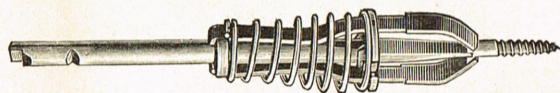
"Yankee" Spiral Ratchet Screwdriver, No. 20.Nos. 1515
and 1516.

This Tool is made in two sizes, viz.:

No. 1515. No. 20. Size 1: Extreme length extended, including bit, 14 in. Length of push or stroke, 4 in. 7/6 each.
 „ 1516. „ 20. Size 2: „ „ „ „ 17 in. „ „ 5 in. 8/6 „

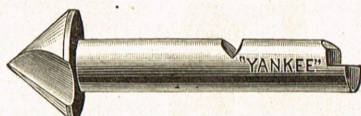
Three Bits are furnished with each tool. Packed one only in a strong paper box.

This tool is a modification of our No. 30 Spiral Ratchet Screwdriver, and is designed to push or ratchet screws into place, but not to take them out in that way. It is arranged to be used as a rigid driver by simply moving shifter to opposite end of slot.

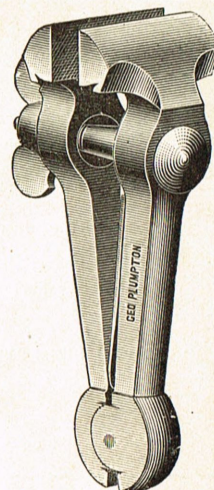
Attachments for Spiral Screwdrivers.**Bit with Screw Holder.**

No. 1512. Special Chuck with
3 Drill Points to fit No. 35,
2/- each.

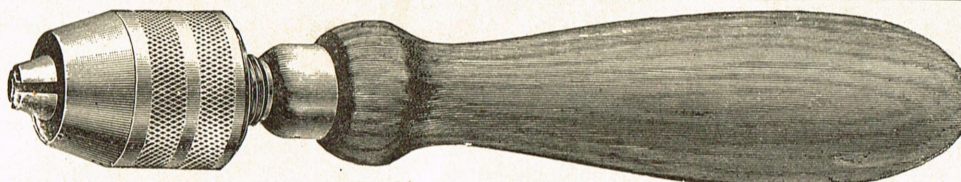
No. 1519.	For No. 30.	Size 2	...	2/- each.	No. 1513.	Ditto with 8 Drill
„ 1520.	„ „	31.	„ 3	2/- „		Points, to fit Nos. 30 and 31,
„ 1521.	„ „	35.	„ 1	2/- „		3/9 each.

Countersinks.

No. 1522. Nos. 30, 31, and 35 ... 1/- each.

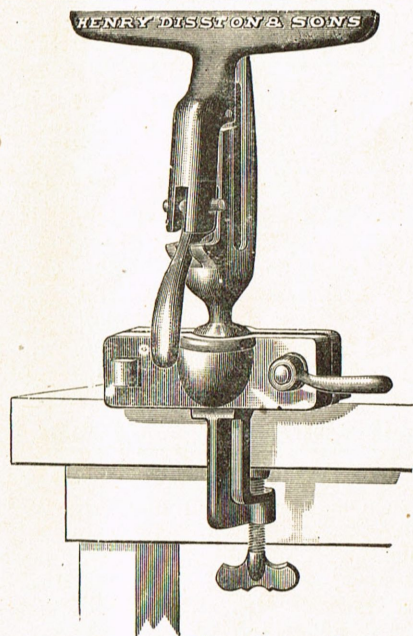


No. 1531. Good quality Forged
Hand Vices, 3½ in., 3/- ; 4 in., 3/6 ;
4½ in., 4/3 ; 5 in., 5/9 each.



No. 1537. Best Quality Pin Vice, with Three-Jawed Chuck, Nickel Plated, with Hollow Handle, holding from 0 to 5/32.
Price, 6/- each.

No. 1538. Ditto, Holding from 0 to 1/4. Price, 7/6 each.



No. 1539. No. 1.

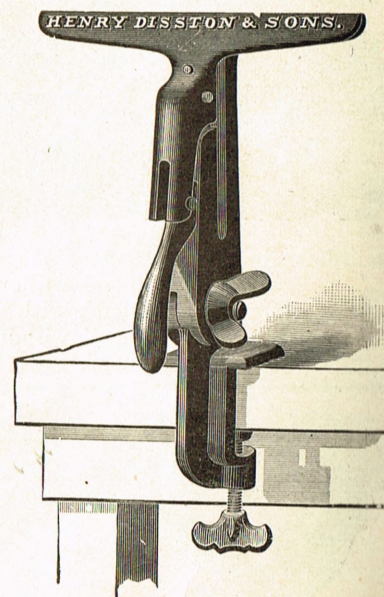
Disston's Saw-Filers' Vices.

These are very useful Vices, made of cast Iron, nicely japanned, and designed for constant use.

They are made in two styles—one with a ball and socket joint, which will allow of the Vice being swivelled in any direction; and the other with a plain joint, which only allows of work being done parallel with the bench.

PRICES.

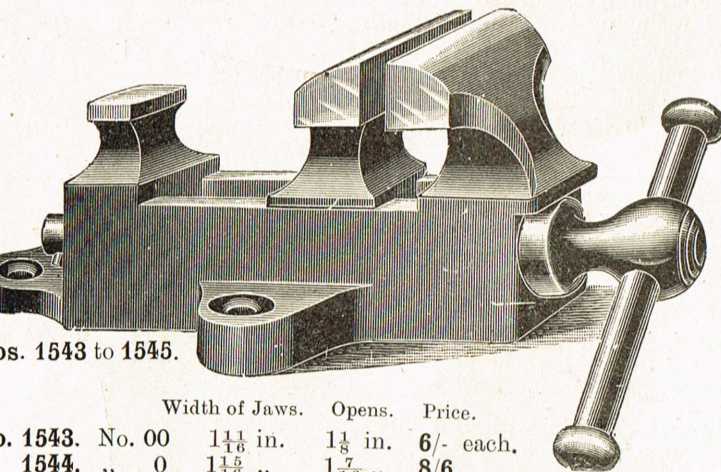
No. 1539. No. 1. Ball and Socket, 13/6 ea.
 „ 1540. No. 2. Plain Hinge, 10/6 ea.



No. 1540. No. 2.

VICES.

New Parallel Handy Vice.

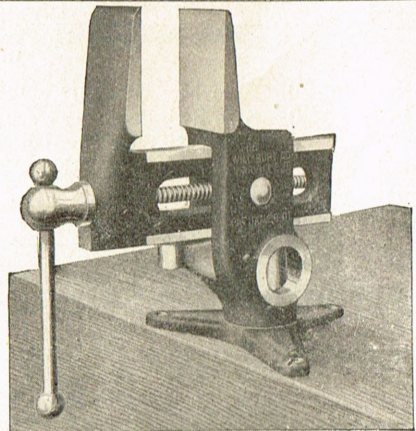


No. 1543 to 1545.

		Width of Jaws.	Opens.	Price.
No. 1543.	No. 00	1 $\frac{1}{16}$ in.	1 $\frac{1}{8}$ in.	6/- each.
1544.	" 0	1 $\frac{1}{8}$ "	1 $\frac{7}{16}$ "	8/6 "
1545.	" 1	2 $\frac{1}{16}$ "	1 $\frac{9}{16}$ "	10/6 "

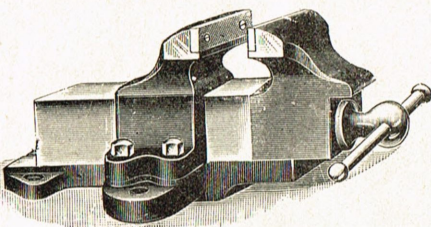
The 0 and 1 sizes are fitted with hardened Steel Jaws.

The Will-Burt "Joiners'" Vice.



The vice turns free on its base either in the vertical or horizontal position. The workman places his work in the vice in the position he can work naturally and to the best advantage; he then clamps his work with the main screw as he would with any vice and his work is held solid and secure. To swivel his vice to a different position it is not necessary to entirely release the grip on the work, but simply to decrease the grip by a slight release of the screw.

Price 32/6

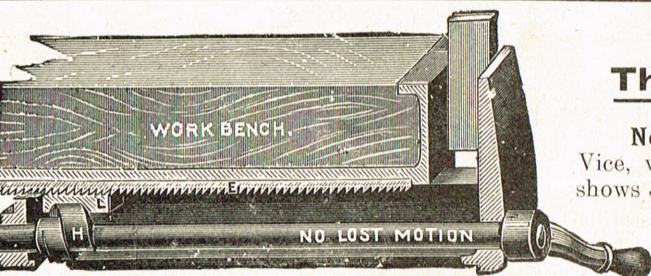


No. 1546 to 1553.

Parallel Vice with Steel Jaws.

No.		Width of Jaws.	To Grip.	Weight.	Price.
No. 1546.	No. 00	2 $\frac{1}{4}$ in.	2 in.	5 lb.	12/6 each.
" 1547.	" 0	2 $\frac{3}{8}$ "	2 $\frac{3}{4}$ "	7 "	14/- "
" 1548.	" 1	3 "	3 $\frac{1}{4}$ "	11 "	16/3 "
" 1549.	" 2	3 $\frac{1}{2}$ "	4 "	21 "	21/6 "
" 1550.	" 3	4 "	4 $\frac{3}{4}$ "	31 "	29/- "
" 1551.	" 4	4 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	44 "	39/6 "
" 1552.	" 5	5 "	6 $\frac{1}{4}$ "	65 "	52/6 "
" 1553.	" 6	6 "	7 $\frac{1}{4}$ "	87 "	66/6 "

These vices are accurately machined and fitted, and are in every respect thoroughly well made. The gripping faces of the detachable jaws are made from the best tool steel and are carefully hardened.



The "Lightning" Joiners' Vices.

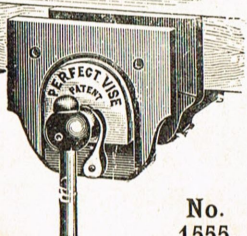
No. 1554. The "Lightning" Pattern Makers' and Joiners' Vice, with Instantaneous Grip. With Steel Racks. Illustration shows Joiners' Vice with work gripped.

No. 1554.	No. 0J.	Amateurs', Jaws 7 $\frac{1}{2}$ in., opens 6 in.	Tempered Steel Racks with Machine-cut Teeth,	30/- each.
"	1J.	Joiners', without Bench Hook, Jaws 9 in., opens 12 in.	" " " "	33/6 "
"	1J.	Joiners', with " " " 9 "	" 12 " " " " "	35/- "
"	1 $\frac{1}{2}$ J.	Joiners', without " " " 10 $\frac{1}{2}$ "	" 13 " " " " "	39/6 "
"	1 $\frac{1}{2}$ J.	Joiners', with " " " 10 $\frac{1}{2}$ "	" 13 " " " " "	41/6 "

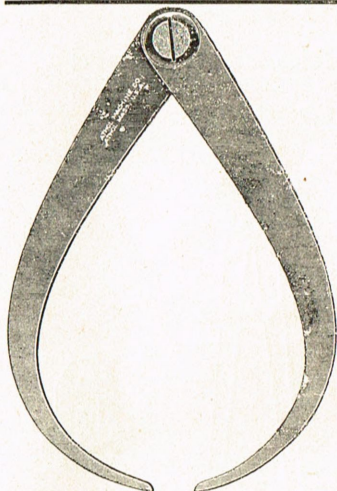
Parkinson's "Perfect" Woodworkers' Vices.

No. 1555. These Woodworkers' Vices can be opened or closed instantaneously by pressing the lever at side, and releasing same, the screw then acts as in an ordinary vice, and any pressure desired can be obtained. Original make only.

No.		Width of Jaw.	Opening.	Weight.	Price.
No. 10A	...	7 in.	6 in.	19 lb.	21/- each.
" 10	...	9 "	12 "	40 "	28/- "
" 11	...	10 $\frac{1}{2}$ "	12 "	44 "	33/- "



ENGINEERS' SECTION.
Special Line Invicta Firm Joint
Steel Callipers.



Size, Outside No. 1557 or inside No. 1558 —

3	4	5	6	8	10	12	14	18	24 in.
1/6	1/9	2/2	2/8	3/8	4/8	5/4	7/6	—	— per pair.

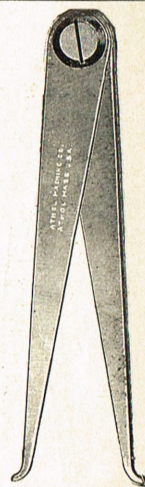
Starrett's Hardened Firm Joint Ditto.

Size, Outside No. 1559 or Inside No. 1560 —

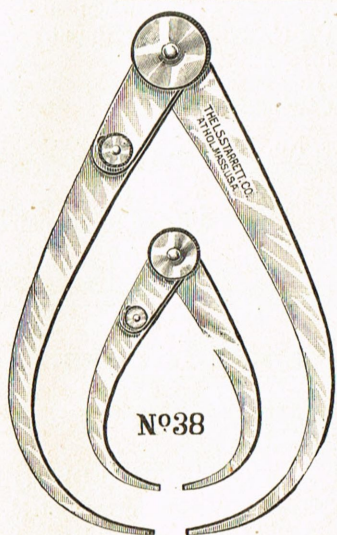
3	4	5	6	8	10	12	14	18	24 in.
2/9	3/8	4/-	4/6	5/6	6/6	7/6	10/6	15/-	20/6 per pair.

Nos. 1557 and 1559. Outside.

Nos. 1558 and 1560. Inside.



Lock-joint Callipers.



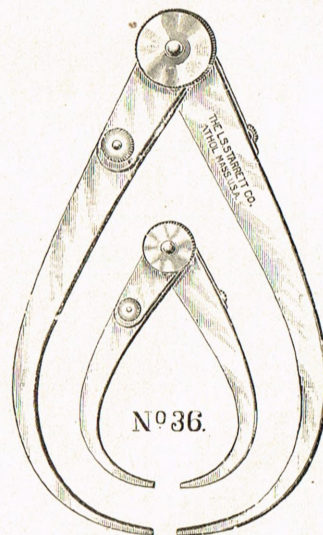
No. 1570.

4	6	8	10	12	14	18	24 in.
5/3	6/-	7/6	9/-	10/6	12/-	15/-	20/6 each.



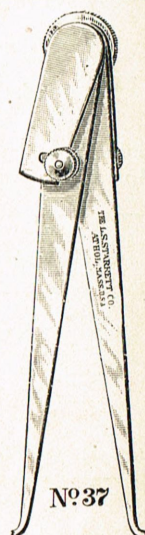
No. 39

Lock-joint Transfer Callipers.



No. 1571.

4	6	8	10	12	14	18	24 in.
7/6	9/-	10/6	12/-	13/6	15/-	17/9	25/- each.

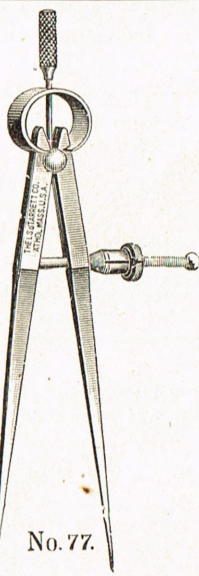


No. 37

Dividers.



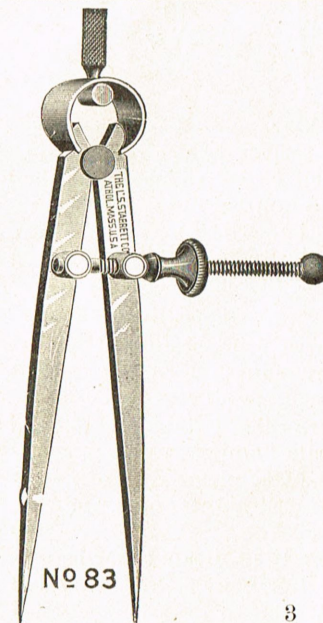
No. 43



No. 77.

No. 1575.	No. 43.	...	3	4	5	6	8	10 in.
„ 1576.	„ 77. Solid	6/-	7/6	7/6	9/6	11/-	—	„
„ 1577.	„ 77. Spring	6/9	8/3	8/3	10/3	11/9	—	„

Yankee Spring
Dividers.



No. 83

No. 1582.

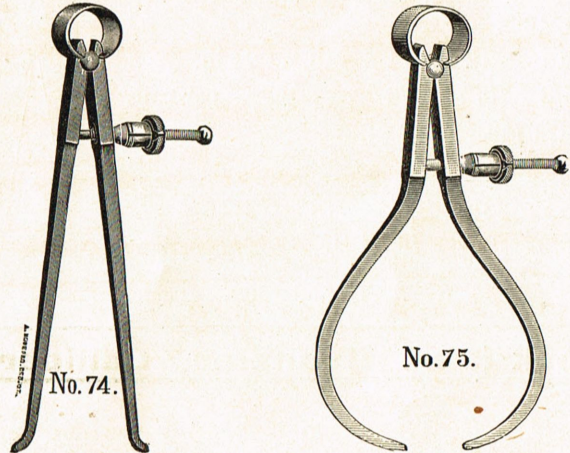
Prices,
No. 83.

	3	4	5	6	8 in.
Solid Nut	4/3	4/8	5/-	5/3	6/8 per pair.
Spring Nut	4/11	5/4	5/8	5/11	7/4 „

The Fay Patent.

Outside and Inside Callipers.

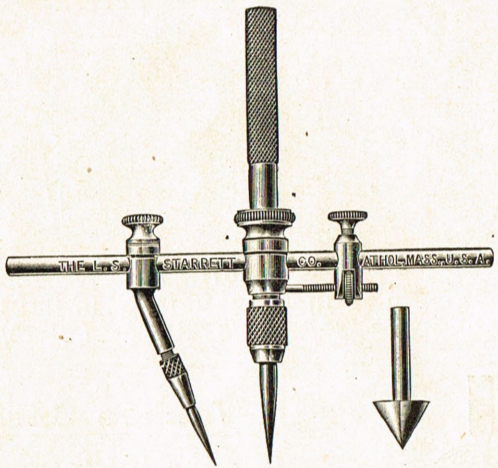
With Spring Nut.



No. 1578. Prices outside, No. 75, or inside, No. 74.

	3	4	5	6	8 in.
Solid Nut	5/10	6/7	6/7	8/-	9/8 per pair.
Spring Nut	6/7	7/4	7/4	8/9	10/4 „

Universal Dividers. No. 89s.



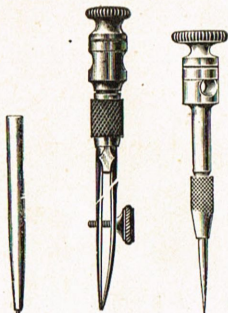
No. 1583.

No. 1583. The adjustable scriber holder is reversible, and carries either a fine tempered steel point or a pencil lead, held in a split socket by a knurled nut. With 4 in. beam, 7½ in. and under may be scribed. The V centre point may be substituted for the regular point, adapting the tool for scribing around a drilled hole.

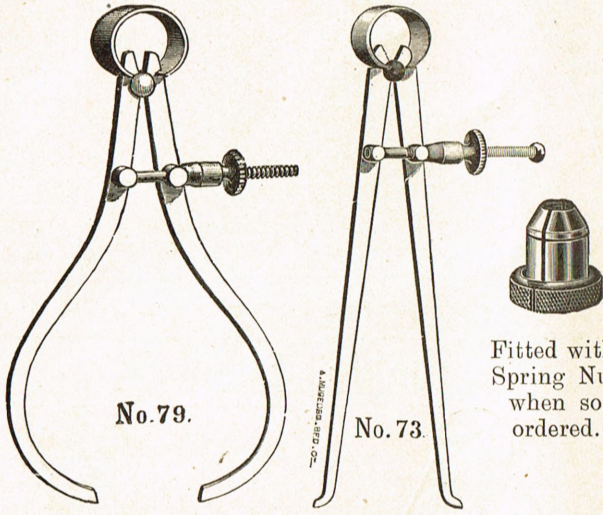
	PRICES.	s. d.
Tool with 4 in. beam and V centre point	...	12 0

LIST OF EXTRAS.

A. Extra Steel Points	each	0 9
B. Needle Points	...	1 2
C. Pen Attachment	...	9 0
D. Extra Straight Point and Socket	...	2 9
E. Extra 13 in. Beam to scribe 25 in. circle	...	1 6
F. Coupling	...	2 3
Total for tool and all attachments	...	28 6



Yankee Outside and Inside Callipers.

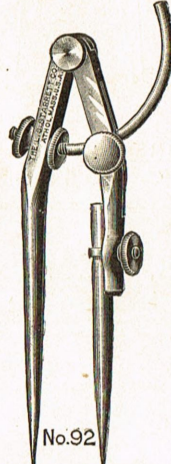


Fitted with Spring Nut when so ordered.

No. 1579. Prices, No. 79 or No. 73.

	3	4	5	6	8 in.
Solid Nut	...	4/2	4/7	5/-	5/3 6/8 per pair.
Spring Nut	...	4/10	5/4	5/8	6/- 7/4 „

Starrett's Patent Dividers, No. 92s.



This cut shows an improved Divider. Both points are crucible-forged steel, nicely tempered. The quadrant passes through the leg which is split. The clamp screw springs the slit parts and frictionally locks the quadrant firm. After fine adjustments are made, our patent lock nut between the arms locks the spring in the leg firm. The adjustable point may be instantly removed and a common pencil inserted in its place.

PRICES.

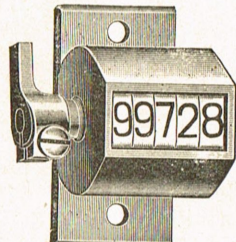
	6	7	8 in.
No. 1586. Plain	6/3	6/8	7/6 ea.
Nos. 1586 and 1587. „ 1587. „ Nickelled	7/9	8/-	8/9 „

Veeder Counter, No. 4.

No. 4 registers one figure for each revolution.

Price of No. 4, 9/3

Details of other patterns of Veeder Counters sent on request.



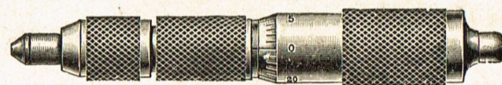
Starrett's Micrometer Calliper Gauge, No. 126.

The body of the tool is a steel tube, provided at one end with a binding chuck in which are fastened the plain rods, and it can quickly be adjusted to any approximate size. The other end has sleeve and body of barrel marked and graduated same as our No. 3 Micrometer Calliper, giving a reading in thousandths, and has $\frac{1}{4}$ in. movement of screw. Anvil in end of sleeve is hardened, as are those in ends of rods.

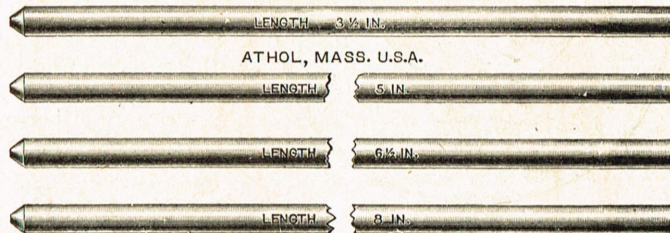
PRICES.

No. 1563S. Capacity $2\frac{1}{2}$ in. to 10 in. (with five rods), 15/-
Leatherette case, extra ... 6/-
Extra rods at -/3 per in.

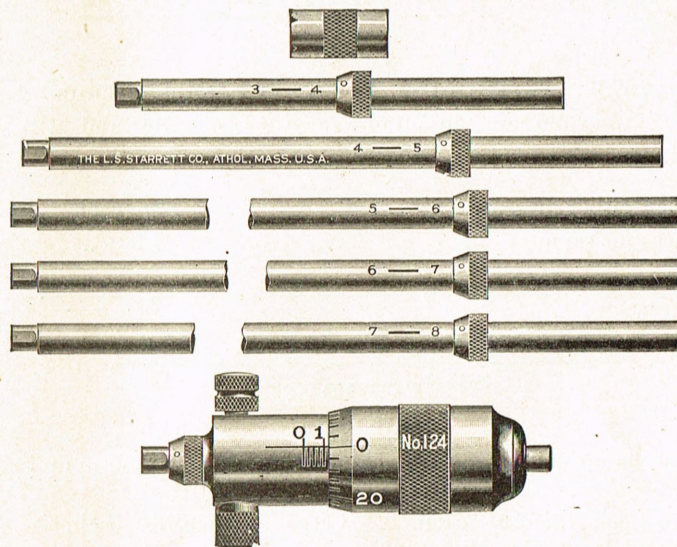
Can also be supplied in Metric 7 cm. to 25 cm. at same price.



THE L. S. STARRETT CO.



Starrett's Adjustable Calliper Gauge, No. 124.



Set A. No. 1567S.
Inside Micrometer, No. 124.

No. 1567S. The above cut shows our new inside micrometer, No. 124, which is designed for internal and lineal measurements, such as measuring cylinders, rings; also for setting callipers, comparing gauges, etc. The micrometer screw in the head has $\frac{1}{4}$ in. movement in sets A and B, 1 in. in set C, and by means of the extension rods furnished, the sizes as given below for each set can be obtained. The

extension rods are provided with a collar, against which the rods are conveniently and accurately set in the micrometer head. With the rods are sent standard gauges or rings to slip on the rods, under the collars, to further extend the rod. The contact surfaces are all hardened, and provision is made for adjustment, to compensate for wear of the screw and contact surfaces.

The auxiliary handle, as shown in cut, can be used with sets A, B, and D. The handle is screwed in the side of the micrometer head, in place of the knurled ear screw, which can be removed, thus fitting the tool for use in



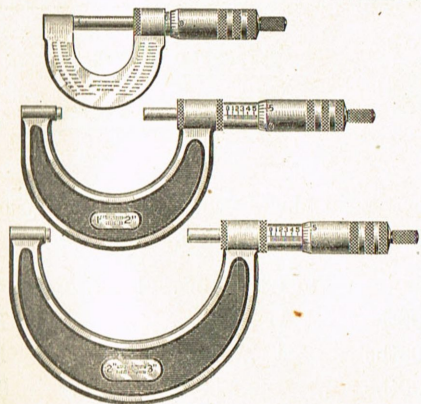
HANDLE.

places too small for the hand.

Handle is 4/6 extra.

- Set A has 6 rods and a $\frac{1}{2}$ in. gauge, and measures from 2 to 8 in. Price, with case, 41/-; without case, 34/6; Handle, 4/6.
- „ B has 10 rods and a $\frac{1}{2}$ in. gauge, and measures from 2 to 12 in. Price, with case, 48/-; without case, 40/-; Handle, 4/6.
- „ C has 4 rods, a 1 in. and two 2 in. gauges, and measures from 8 to 32 in. Price, with case, 60/-; without case, 49/-; Handle, 4/6.
- „ D comprises sets A and C, and measures from 2 to 32 in. Price, with case, 95/-; without case, 83/6; Handle, 4/6.

Starrett's New Micrometers.



No. 226

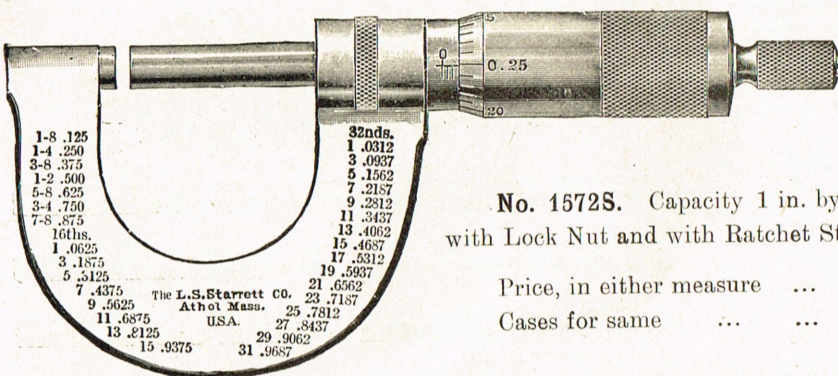
No. 1579S.

No. 226S.

The 1 in. has the decimal equivalents stamped on the frame. The other sizes are marked to show their capacity.

PRICES.

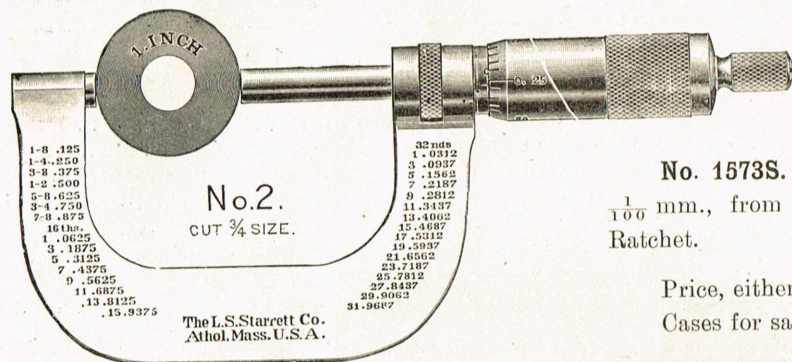
Size or Capacity.	With Ratchet Stop.	Standard Extra.
0 to 1 in., or 0 mm. to 25 mm.	48/-	
1 in. to 2 in., or 25 mm. to 50 mm.,	43/6	1 in. Stand'd for same, 7/-
2 „ „ 3 „ „ 50 „ „ 75 „ „	50/-	2 „ „ „ 7/-
3 „ „ 4 „ „ 75 „ „ 100 „ „	55/-	3 „ „ „ 8/6
4 „ „ 5 „ „ 100 „ „ 125 „ „	60/-	4 „ „ „ 10/-
5 „ „ 6 „ „ 125 „ „ 150 „ „	64/6	5 „ „ „ 11/6



L. S. Starrett's Micrometer, No. 3.

No. 1572S. Capacity 1 in. by $\frac{1}{1000}$ ths of an in. or $\frac{1}{100}$ mm. up to 25 mm., with Lock Nut and with Ratchet Stop.

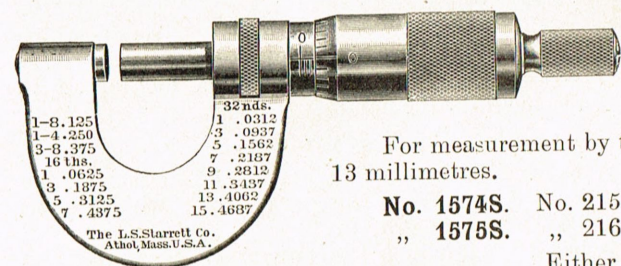
Price, in either measure	...	...	...	...	...	48/- each.
Cases for same	...	...	...	...	...	5/- "



L. S. Starrett's Micrometer, No. 2.

No. 1573S. Capacity 1 in. to 2 in. by $\frac{1}{1000}$ ths of an in. or $\frac{1}{100}$ mm., from 25 mm. to 50 mm., with Lock Nut and with Ratchet.

Price, either measure	...	...	...	...	52/- each.
Cases for same	...	...	...	...	6/3 "

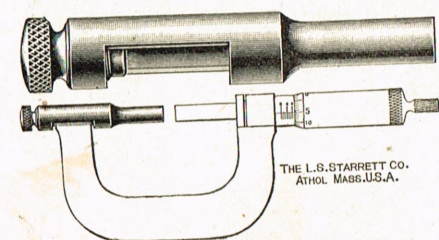


Starrett's Ratchet Stop Micrometers. Half-inch.

For measurement by thousandths up to $\frac{1}{2}$ in., also by hundredths of a millimetre up to 13 millimetres.

No. 1574S.	No. 215. With Lock Nut, 40/- each.	Cases for same, 5/- each.
No. 1575S.	No. 216. Without Lock Nut, 36/6 each.	" " 5/- "

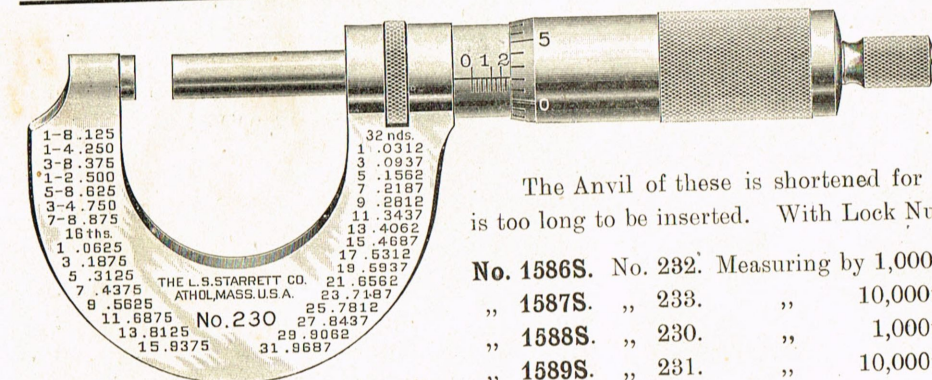
Either of these Gauges in Metric measures same price.



Attachment for Two-inch Micrometers, No. 212.

No. 1578S. This attachment, by means of which a 2 in. Micrometer may be instantly converted into a 1 in. Tool, will be furnished, when ordered, with No. 2 Micrometer.

Price	...	...	14/6 each.
-------	-----	-----	------------



Short Anvil Micrometers.

The Anvil of these is shortened for use in places where the ordinary anvil is too long to be inserted. With Lock Nut and Ratchet Stop.

No. 1586S.	No. 232. Measuring by 1,000ths up to $\frac{1}{2}$ in., 40/-.	Do. in Case, 45/-
No. 1587S.	No. 233. " 10,000ths " $\frac{1}{2}$ " 49/-.	" 54/-
No. 1588S.	No. 230. " 1,000ths " 1 " 48/-.	" 53/-
No. 1589S.	No. 231. " 10,000ths " 1 " 56/6.	" 61/6

Prices for Brown & Sharpe Micrometers, or any other make desired, will be sent on receipt of request for same.

Improved Combination In and Outside Calliper and Depth Gauge.



No. 1609. Columbus Gauges.

These Gauges are Nickel Plated, with two Verniers and Depth Gauge.

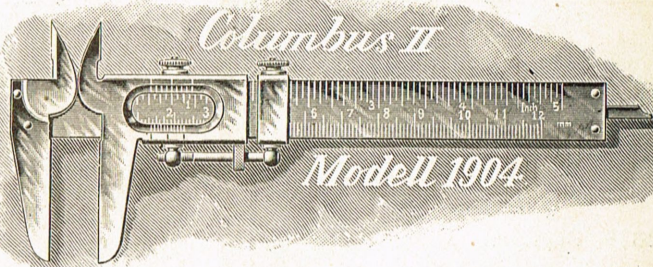
No. 1. To read $\frac{1}{128}$ and $\frac{1}{10}$ mm.

Price complete, in case, 10/-

No. 1610. "Columbus" Gauge II, with two Verniers, Depth Gauge, and with Micrometer Attachment. Nickel Plated.

No. 2. To read $\frac{1}{128}$ and $\frac{1}{10}$ mm. Price, complete, in case, 14/-

„ 2A. To read $\frac{1}{128}$ and $\frac{1}{1000}$ in. Price, complete, in Case, 15/6



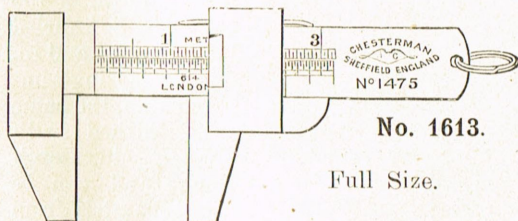
Chesterman's Steel Calliper Gauges.

No. 1611. No. 1465. Divided on one $1\frac{1}{4}$ 2 3 4 6 in.
side, inches into 32nds, and
circumference measure into
16ths ... 6/9 7/6 8/6 each.

„ 1612. No. 1466. Divided on one
side, inches into 64ths and
50ths ... 6/9 7/6 8/6 „

„ 1613. No. 1475. Divided on one side,
inches into 64ths, and centi-
metres into millimetres and
halves. ... 6/9 7/6 8/6 „

„ 1614. No. 1400. Divided Inches into
32nds centimetres into milli-
metres and halves ... — — 16/- 17/6 18/6

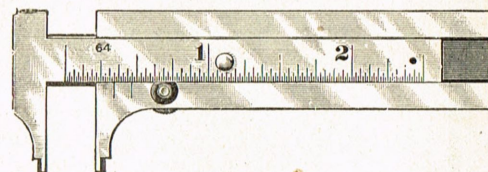
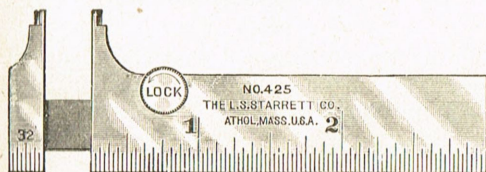


No. 1613.

Full Size.

Starrett's Pocket Slide Calliper,

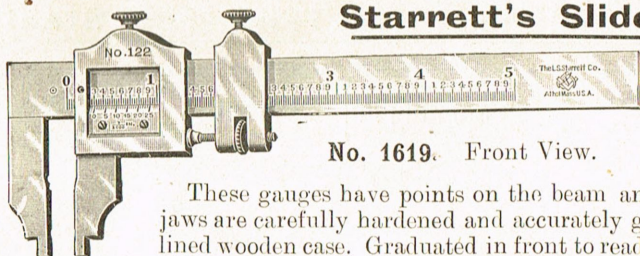
No. 425.



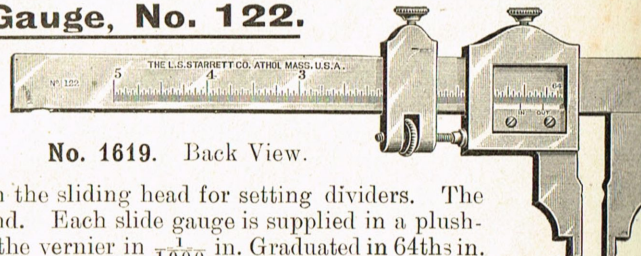
No. 1617. Graduated in 32nds and 64ths. The improved clamping device is a valuable feature.

Sizes, 3 in., 17/6; 5 in., 23/-

Starrett's Slide Gauge, No. 122.



No. 1619. Front View.



No. 1619. Back View.

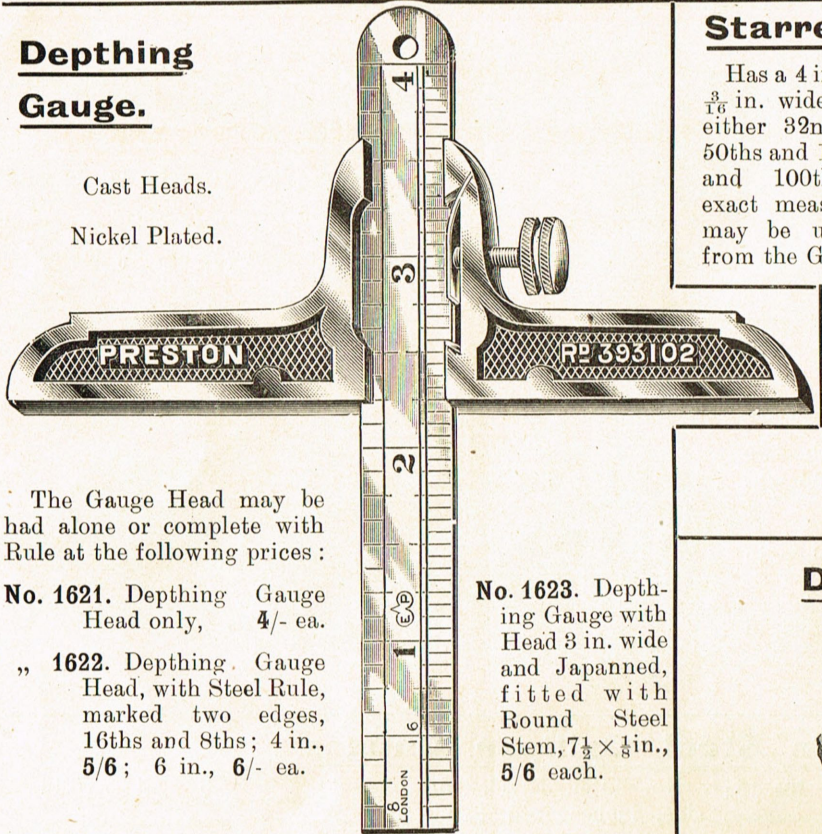
These gauges have points on the beam and on the sliding head for setting dividers. The jaws are carefully hardened and accurately ground. Each slide gauge is supplied in a plush-lined wooden case. Graduated in front to read by the vernier in $\frac{1}{1000}$ in. Graduated in 64ths in. at back.

Size	...	...	4 in.	6 in.	9 in.	12 in.	24 in.
Length of Jaws	...	...	$1\frac{9}{16}$ „	$1\frac{9}{16}$ „	$2\frac{3}{8}$ „	$2\frac{3}{8}$ „	$2\frac{3}{8}$ „
Width of Jaws	...	...	.25 „	.25 „	.3 „	.3 „	.3 „
Price	...	...	106/-	121/6	142/-	156/-	222/6 each.

No. 122ME has a vernier on each side, and reads on one side in $\frac{1}{1000}$ in., and on the other in 50ths of a millimetre at same prices as No. 122.

Depthing Gauge.

Cast Heads.
Nickel Plated.

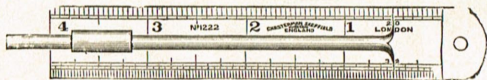


The Gauge Head may be had alone or complete with Rule at the following prices :

- No. 1621. Depthing Gauge Head only, 4/- ea.
,, 1622. Depthing Gauge Head, with Steel Rule, marked two edges, 16ths and 8ths; 4 in., 5/6; 6 in., 6/- ea.

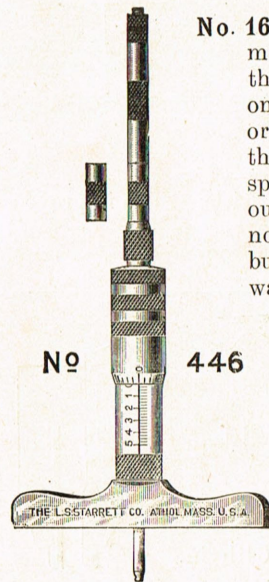
No. 1623. Depthing Gauge with Head 3 in. wide and Japanned, fitted with Round Steel Stem, 7 1/2 x 1/8 in., 5/6 each.

Improved Depth Gauge.



No. 1629. 4 in. Best Machine Divided Steel Rule marked 16ths, 32nds, 64ths, fitted with Sliding Bar as illustrated, 2/- each.

Patent Micrometer Depth Gauge, No. 446.



No. 1654. This gauge has 1/2 in. movement of the screw, reading in thousandths; and with two 1/2 in. and one 1 in. standard collars to slip off or on the spindle, 2 1/2 in., reading in thousandths, can be obtained. The split nut is covered and protected by our patent graduated sleeve, which not only protects the nut from dirt, but provides a quick and accurate way of taking up wear and adjusting the micrometer to insure correct reading. The sleeve, being held by a stiff friction, may be rotated by a spanner wrench, accompanying each gauge, so that the zero lines will coincide for correct reading. The head is about 3/16 in. thick; this and the point of measuring rod are hardened.

PRICES.

- No. 446A. With 2 1/4 in. base, with case, 41/-;
without case, 37/6
,, 446B. ,, 4 ,, ,, ,, 46/-;
without case, 41/-

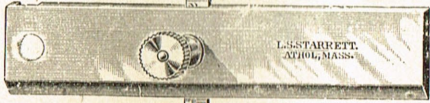
Can also be supplied with Metric Divisions at same prices.

Starrett's Depth Gauge, No. 46.

Has a 4 in. or 6 in. scale, 3/16 in. wide, graduated in either 32nds and 64ths, 50ths and 100ths, or 64ths and 100ths, indicating exact measurements, and may be used separately from the Gauge.

PRICES.

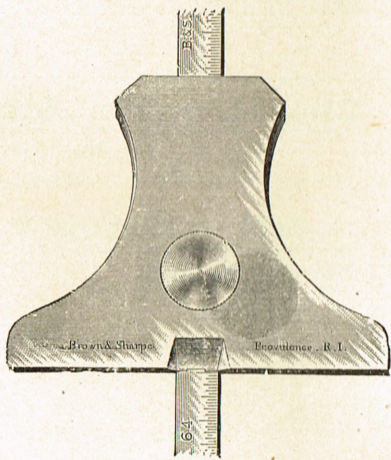
- With 3 1/2 in. Stock and 4 in. Scale 7/6
With 6 in. Stock and 4 in. Scale 8/9
With 10 in. Stock and 6 in. Scale 13/3



No. 1630.

Depth Gauge, No. 237.

No. 1651.



The head of this gauge is steel, nicely finished and case-hardened; 2 in. wide across the base, 1/8 in. thick.

The blade which is conveniently held in the groove of the head by a knurled lock nut, is a 6 in. narrow spring-tempered rule, the same as furnished with our No. 46 Depth Gauge and can be used separately from the gauge. Blades

graduated in 32nds and 64ths of an in., will be sent unless otherwise ordered, but we can also supply them graduated in 50ths and 100ths, or 64ths and 100ths

Price 7/6

No. 237m.

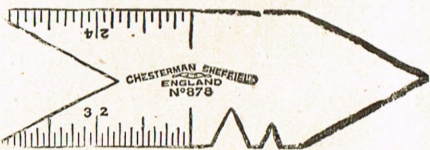
No. 1652. Metric.

Same as No. 237, except that the blade is 15 cm. long, graduated on one side in millimeters, and on the other in 1/2 millimeters.

Price 7/6

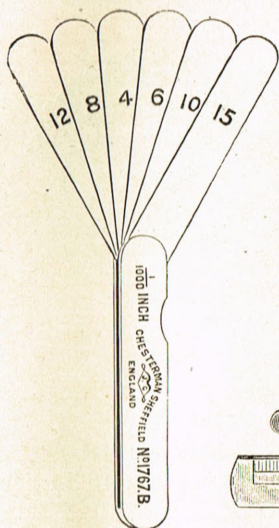
Packed 1 in a box.

Hardened and Tempered Steel Centre Gauges.

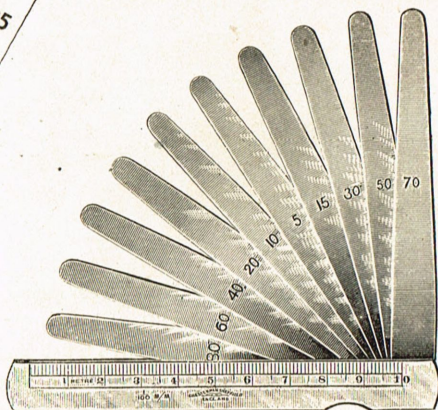


For grinding and setting Screw Cutting Tools.

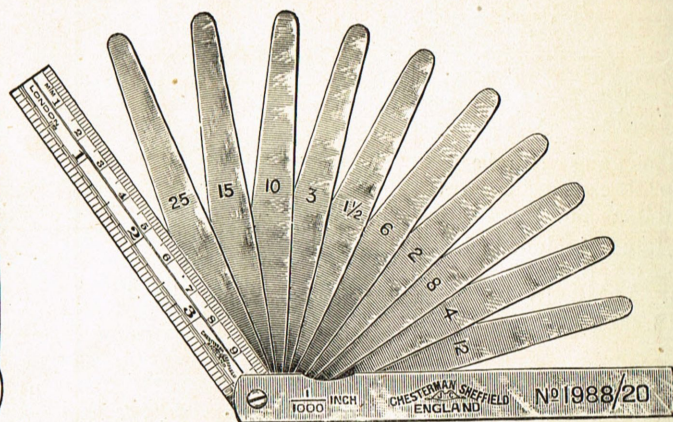
- No. 1656. No. 1. Whitworth Standard Angles 55°, Machine divided on four edges into 24ths, 32nds, 14ths, and 20ths ... 1/4 each.
,, 1657. No. 2. U.S. Standard Angles 60°, divided as above ... 1/4 each.

Gauges—continued.**Steel Feeler or Thickness Gauges (Chesterman's).**

No. 1767 B



No. 1773/4.



No. 1988/20.

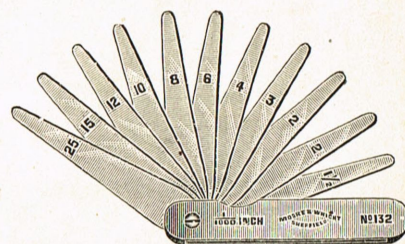
No. 1631.	No. 1767 B. As Illustration, 6 Blades, 3 in. by $\frac{1}{2}$ in., 1 each, 4, 6, 8, 10, 12 and 15/1000ths of an inch	3/6
„ 1632.	„ 1767 B/7. With 8 Blades, 2, 3, 4, 6, 8, 10, 12 and 15/1000ths	4/3
„ 1633.	„ 1767 B/3. With 10 Blades, 2, 2, 2, 3, 4, 6, 8, 10, 12 and 15/1000ths	5/-
„ 1634.	„ 1877/7. With 8 Tapered Blades, $3 \times \frac{1}{2}$ in., 1 each, 2, 3, 4, 6, 8, 10, 12 and 15/1000ths	4/9
„ 1635.	„ 1877/19 „ 10 „ „ $3 \times \frac{1}{2}$ in., 1 each, $1\frac{1}{2}$, 2, 2, 3, 4, 6, 8, 10, 15 and 25/1000ths	5/9
„ 1636.	„ 1773. With 6 Blades, $4 \times \frac{1}{2}$ in., Rule Marked Case, 1 each, 10, 15, 20, 25, 30, 40/100ths of a millimetre	4/9
„ 1637.	„ 1773/2. With 8 Blades, $4 \times \frac{1}{2}$ in., Rule Marked Case, 1 each, 5, $7\frac{1}{2}$, 10, 15, 20, 25, 30 and 40/100ths of a millimetre	6/-
„ 1638.	„ 1773/4. As Illustration, $4 \times \frac{1}{2}$ in., 1 each, 5, 10, 15, 20, 30, 40, 50, 60, 70, 80/100ths of a millimetre	7/3
„ 1639.	„ 1769. With 6 Tapered Blades, $4 \times \frac{1}{2}$ in., Rule Marked Case, 1 each, 4, 6, 8, 10, 12 and 15/1000ths of an inch	4/9
„ 1640.	„ 1769/7. With 8 Tapered Blades, $4 \times \frac{1}{2}$ in., Rule Marked Case, 1 each, 2, 3, 4, 6, 8, 10, 12 15/1000ths of an inch	6/-
„ 1641.	„ 1769/19. With 10 Tapered Blades, $4 \times \frac{1}{2}$ in., Rule Marked Case, 1 each, $1\frac{1}{2}$, 2, 2, 3, 4, 6, 8, 10, 15, and 25/1000ths of an inch	7/3
„ 1642.	„ 1988/20. With 10 Tapered Blades, and one 4 in. Rule Blade. In Case as Illustration	7/6

No. 1646. Blades, 3 in. long, $\frac{1}{2}$ in. wide parallel.

No. 21.	Six Blades, viz.: one each 4, 6, 8, 10, 12, 15/1000ths of an in., each marked with size, folding into steel case	2/10 each.
„ 22.	Eight Blades, viz.: one each, 2, 3, 4, 6, 8, 10, 12, 15/1000ths of an in., each marked with size, folding into steel case	3/6 each.
„ 27.	As No. 22, but with two each 2/1000ths and 3/1000ths, i.e., 10 Blades in all	4/- each.
„ 121.	One Blade each, $1\frac{1}{2}$, 2, 3, 4, 5, 6, 7, 8, 9, 10/1000ths of an in., engraved with size on each blade, folding into steel case	4/3 each.
„ 122.	One Blade each, $1\frac{1}{2}$, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an in., engraved with size on each blade, folding in steel case	4/3 each.

No. 1647. Blades, 3 in. long, $\frac{1}{2}$ in. wide, tapered in width.

No. 23.	As No. 21, one Blade each, 4, 6, 8, 10, 12, 15/1000ths of an in.	3/3 each.
„ 24.	As No. 22, but with Tapered Blades	4/- each.
„ 25.	As No. 24, but with two each 2/1000ths and 3/1000ths blades, 10 Blades in all	4/9 each.
„ 124.	One Blade each $1\frac{1}{2}$, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an in., engraved with size on each blade, folding in steel case	5/- each.
„ 125.	One Blade each, $1\frac{1}{2}$, 2, 3, 4, 5, 6, 7, 8, 9, 10/1000ths of an in., engraved with size on each blade, folding in steel case	5/- each.

No. 1648. Blades, 4 in. long, $\frac{1}{2}$ in. wide, tapered in width.

No. 31.	One Blade each of 4, 6, 8, 10, 12, 15/1000ths of an in., engraved with size on each blade, folding in steel case	4/- each.
„ 32.	As No. 31, but with three additional blades; one Blade each, 2, 2, 3, 4, 6, 8, 10, 12, 15/1000ths of an in.	4/9 each.
„ 36.	As No. 32, but with 4 No. 2 Blades, 11 Blades in all	5/6 each.
„ 33.	As No. 32, but fitted with 4 in. flexible steel rule	5/6 each.
„ 132.	One Blade each of $1\frac{1}{2}$, 2, 2, 3, 4, 6, 8, 10, 12, 15, 25/1000ths of an in., engraved with size on each blade, in steel case, 11 Blades altogether, as illustration	5/6 each.
„ 135.	One Blade each of $1\frac{1}{2}$, 2, 2, 3, 4, 5, 6, 7, 8, 9, 10/1000ths of an in., in steel case	5/6 each.

Screw Pitch Gauge, No. 7 W.

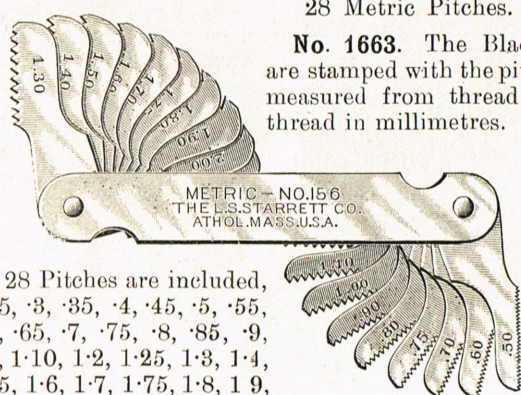
No. 1660.

26 Whitworth Pitches.

This gauge can be used for threads inside a nut as well as outside a screw.

Pitches included, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 40, 48, 60 per in.

Price, 7/6

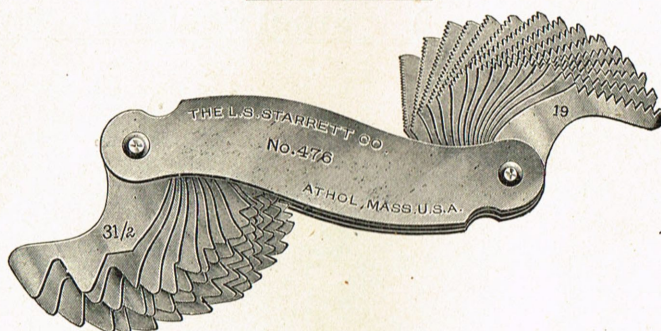
Screw Pitch Gauge, No. 156.

28 Metric Pitches.

No. 1663. The Blades are stamped with the pitch measured from thread to thread in millimetres.

28 Pitches are included, .25, .3, .35, .4, .45, .5, .55, .6, .65, .7, .75, .8, .85, .9, 1, 1.10, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2, 2.5.

Price, 6/6

Positive Stop Thread Gauge.**No. 476.**

No. 1669.

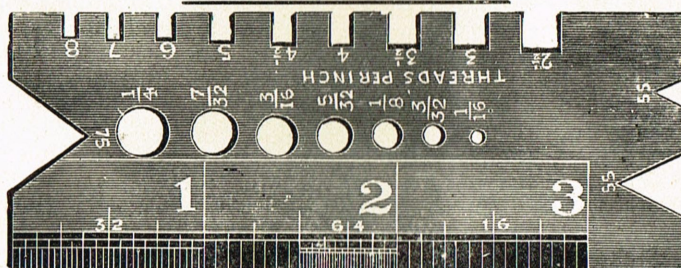
30 Pitches, 3½ to 60, Whitworth Standard.

This Gauge contains 30 blades, as follows:—

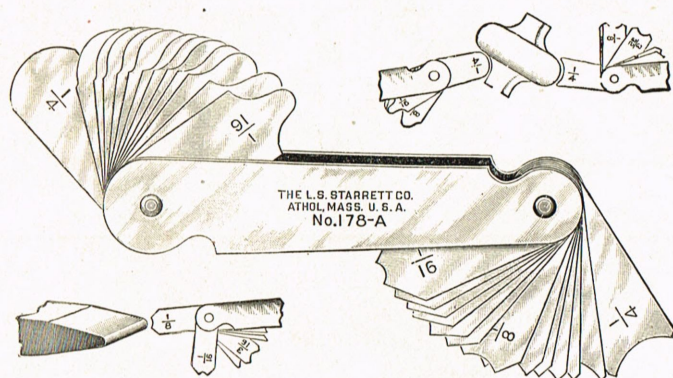
3½, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18 in one end of the case.

19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 44, 48, 50, 60 in the other.

Price 8/9 each.

"Handy" Gauge.

No. 1680. Standard Drill Sizes, Gauge for Square Threads per inch, and Gauge for V Threads, 8/6 each.

Fillet or Radius Gauge, No. 178.

No. 1672. This Gauge may also be described as a concave and convex gauge, and is especially adapted for use in laying out special forming tools, dies, etc., as well as for measuring fillets.

Size A has 26 leaves stamped to indicate radii by 64ths, from 1/16 in. to 1/4 in. (one-half diametric size). Diameters are from 1/8 in. to 1/2 in., varying by 32nds.

Size B is made with 32 leaves stamped to indicate radii by 64ths, from 1/64 in. to 1/2 in. Diameters are from 1/32 in. to 1 in., varying by 32nds.

PRICES.

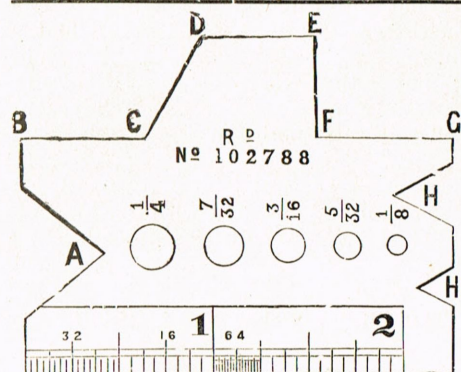
No. 178A.	...	...	...	6/- each.
„ 178B.	...	...	...	8/9 „

The "John Bull" Pocket Gauge.

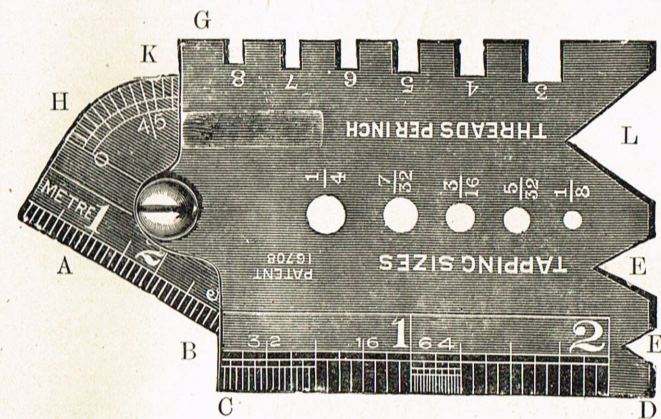
No. 1686. The "John Bull" Gauge can be used as a Rule, a Straight-edge, a Centre Gauge, A; 2 Hexagons (inside and outside), B, C, D, E; 2 Squares (inside and outside), D, E, F, G; 2 Screw-cutting Tool Gauges, H, H; 1 Angle Gauge for grinding the points of Drills, B, C, D; 5 Drill and Wire Gauges. It can also be used for Setting Tools for Screw Cutting.

These Gauges are made of Fine Steel, and the greatest care is bestowed upon their manufacture, so as to ensure perfect accuracy—which is guaranteed.

Price, 5/6 each.



The "Very" Gauge for Engineers.



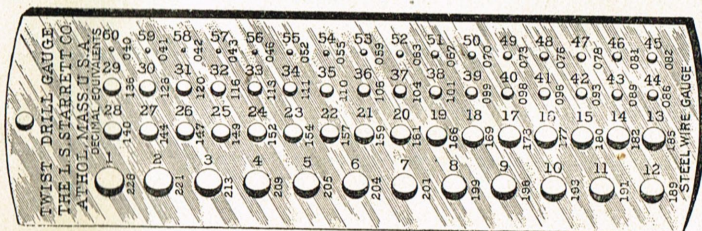
No. 1687. This Gauge consists of two unequal size plates, one of which serves as an ordinary sector, combined with a French Rule. The larger plate contains on the top side six openings, of the several widths suitable for making tools for cutting Square Threads, the number of threads per inch being marked against each opening. Down the centre of the plate are holes of the sizes required for making drills for Tapping purposes. The V-shaped opening on its end marked L is an angle of 75 deg., and is suitable for turning Lathe Centres; those marked E E are angles of 55 deg. and are useful for making tools to cut screws with V threads. The smaller plate can be used as an ordinary sector for setting out angles of any number of degrees; also for obtaining the rake of the tool when screw cutting. When the two lines marked H G are together, the two straight edges, A, B, C, D, are at right angles with each other, then when turned to the angle required (as seen above), the sector will register the number of degrees by the lines K. Price, 10/- each.

Drill and Steel Wire Gauge,

No. 186.

This Gauge gives the number of drill to fit each hole, and the size of the hole in thousandths of an inch.

No. 1689. Price, 8/9 each.

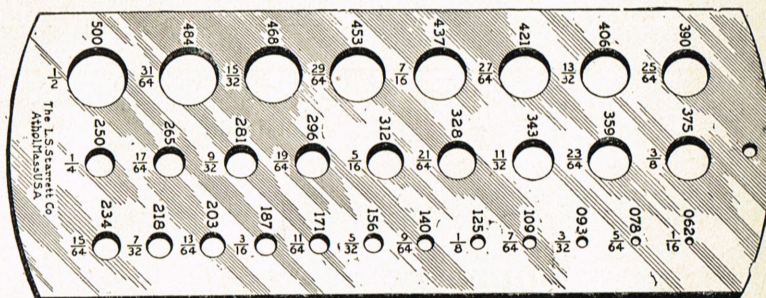


No. 1689.

Jobbers' Drill Gauge.

Sizes of Gauge, in Decimals.

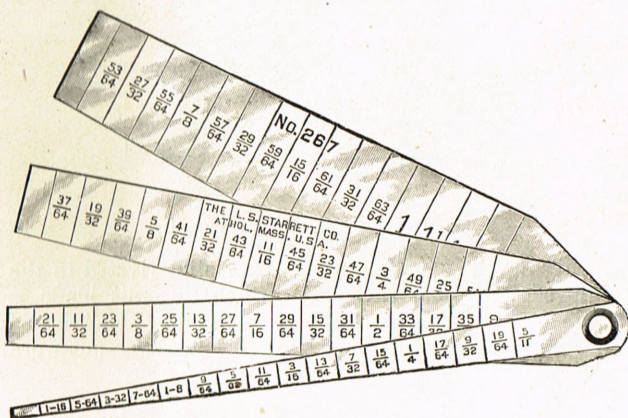
Size.	Decimal.	Size.	Decimal.	Size.	Decimal.
1/16	.0625	7/32	.21875	3/8	.375
5/64	.07812	15/64	.23437	7/16	.39062
3/32	.09375	1/4	.25	1/2	.40625
7/64	.10937	9/32	.26562	5/8	.42187
1/8	.125	11/32	.28125	3/4	.4375
9/64	.14062	3/8	.29687	7/8	.45312
5/32	.15625	1/2	.325	15/16	.46875
11/64	.17187	5/8	.32812	1	.48437
3/16	.1875	3/4	.34375		.50
13/64	.20312	7/8	.35937		



No. 1690. Price, 13/3

New Taper Gauge.

No. 267 S.



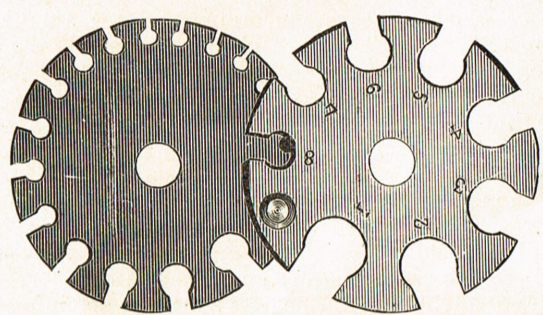
No. 1698.

The thin leaves of this gauge are tapering, the width varying by $\frac{1}{64}$ th in. to every $\frac{1}{4}$ in. of their length. They are graduated in $\frac{1}{4}$ in. and figured to read in fractions of an inch from $\frac{1}{16}$ th in. up to $1\frac{1}{16}$ in. The gauge is designed for brass and steel tube manufacturers for inside measurements, and it is also very convenient for mechanics' use to measure the width of slots and size of holes in nuts drilled for tapping. It is also useful for setting callipers to sizes within its capacity.

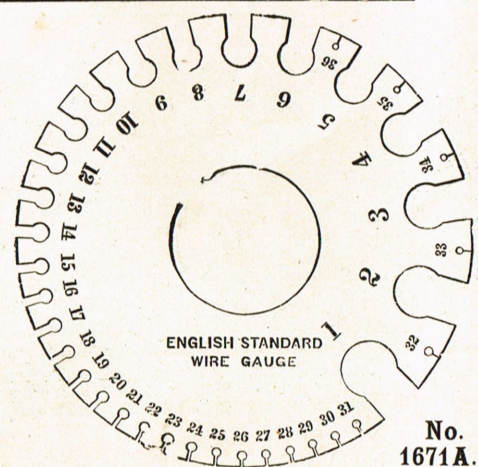
No. 1698. Plain, 23/-; Nickel Plated, 29/-

CHARLES NURSE & CO., LTD.

Best Lancashire Wire and Sheet Metal Gauges.

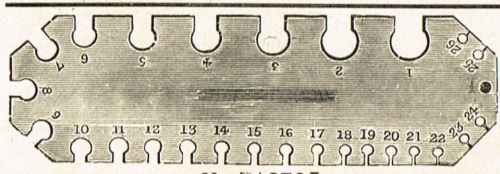


No. 1699.



No. 1671A.

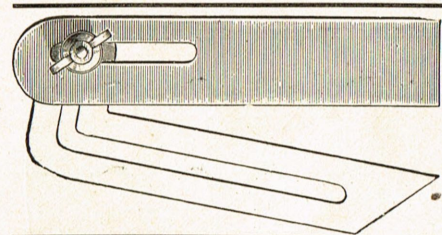
- | | | |
|---|-----|------------|
| No. 1699. Best Double Circular Wire Gauges, Nos. 1 to 26, with Decimal Points | ... | 10/6 each. |
| „ 1671A. Best Circular Wire Gauges, Single, Nos. 1 to 26, with Decimal Points on Reverse Side | ... | 10/6 „ |
| „ 1673A. Best Single Circular Wire Gauges, Nos. 1 to 36, with Decimal Points on Reverse Side | ... | 12/- „ |
| „ 1674A. Special Small Single Circular Wire Gauge in Case, Nos. 10 to 26 | ... | 7/6 „ |



No. 1676A.

- | | |
|---|-----------|
| No. 1675A. Oblong Wire Gauges, Pocket Size, Nos. 4 to 24 | 6/6 each. |
| „ 1677A. Ditto, Nos. 1 to 26, marked with Decimal Points | 10/- „ |
| „ 1679A. Oblong Wire Gauges, Nos. 1 to 36, marked with Decimal Points | 11/6 „ |

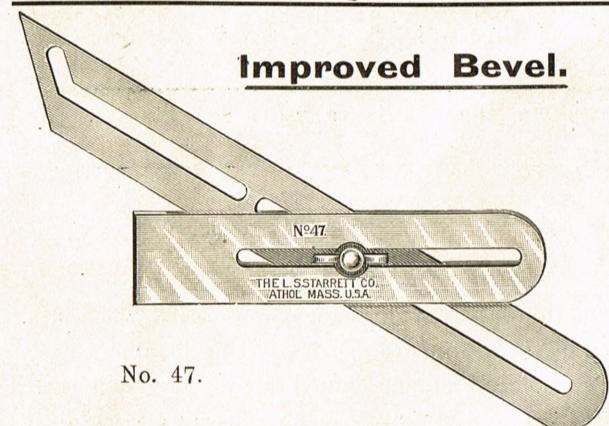
- | | | |
|--|-----|------------|
| No. 1680A. Plumbers' Gauge, in Brass Case, containing Lead Sizes, Nos. 3 to 12; Zinc Sizes, Nos. 8 to 20 or Nos. 6 to 18; Glass Sizes, Plate Glass, $\frac{1}{8}$ in. to $\frac{1}{2}$ in.; Sheet Glass, Nos. 13, 14, 15, 16, 19, 21, 26, 32, 36, 42 | ... | 17/- each. |
| „ 1681A. Ditto ditto as above, but containing third Leaf with Imperial Standard Wire Gauge | ... | 26/- „ |
| „ 1682A. Combined Lead, Zinc, and Imperial Standard Oval Folding Gauge (4 Leaves) | ... | 22/6 „ |



Universal Bevel, No. 15.

No. 1693A. Improved features. The set-off in the blade increases its capacity and usefulness for bevel gear work, etc., so that any angle, however slight, may be obtained.

Price, 3 in., 9/-



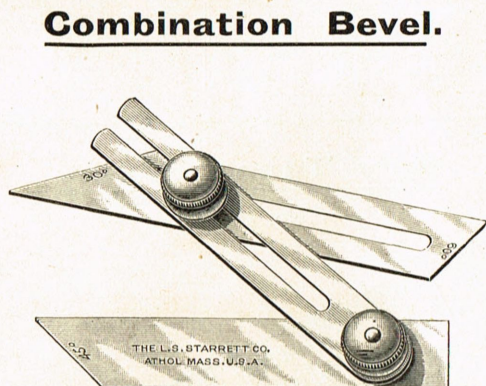
Improved Bevel.

No. 47.

The advantage of this Bevel over any other tool of this kind made consists in it having not only the blade slotted but the stock as well, through and through, thus admitting adjustments that cannot be obtained with a common bevel.

PRICES.

- | | |
|---|-----------|
| No. 1694A. 6 in. Blade, Stock, 3 $\frac{1}{2}$ in long, | 7/6 each. |
| „ 1695A. 9 „ „ „ 4 $\frac{3}{4}$ „ „ | 8/9 „ |
| „ 1696A. 12 „ „ „ 6 „ „ | 10/6 „ |



No. 49.

No. 1697A. Price, 12/3 each.

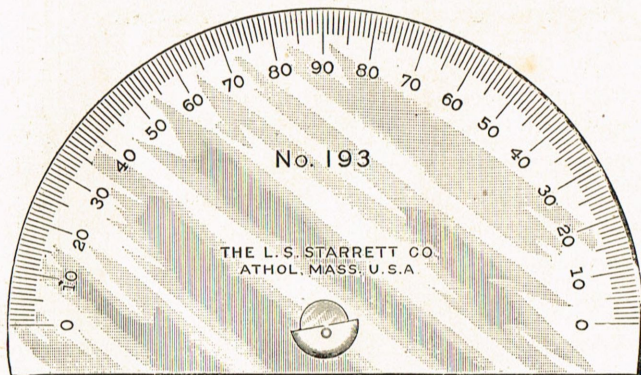
This Bevel, as will be seen, has a stud riveted in the straight-edge stock or head, on which its split blade is hinged, so as to swing over the stock, and by the knurled nut clamped at any angle, adapting it for laying out work in a very simple manner.

Protractor No. 193, Starrett's.

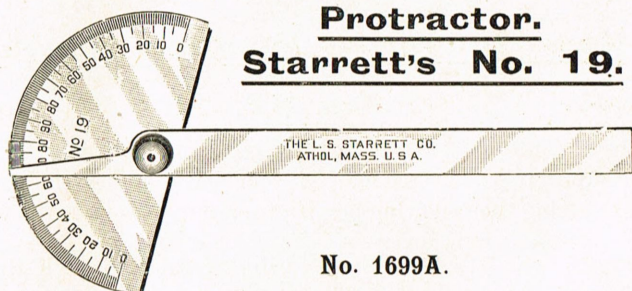
No. 1698A.

No. 1698A. A handy and inexpensive instrument which, when used with an ordinary bevel, forms an excellent Bevel Protractor. By its use the Bevel can be set to any angle with the greatest ease, and with perfect accuracy.

Price, 6/3



Protractor. Starrett's No. 19.

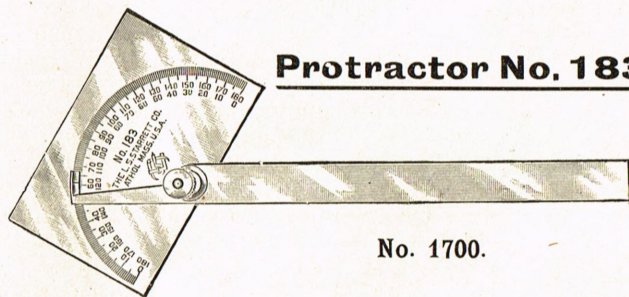


No. 1699A.

No. 1699A. Graduated in degrees from 0 to 90, both ways. The blade is 6 in. long, and by means of our patent lock joint is set firmly by a slight turn of the nut. The back of the tool is flat. This protractor is accurate, and is convenient for setting bevels, for transferring angles, as a small T square, or for a large number of other uses which will readily occur to a machinist or draftsman. and will be found reliable, and very satisfactory by any mechanic, especially those who do not care to pay for a more expensive tool.

Price, 10/6

Protractor No. 183.



No. 1700.

Similar to No. 19, but with rectangular head, giving four working faces, also two rows of figures reading both ways to show the complementary degrees. The blade is 6 in. long and by means of our patent lock joint is set firmly by a slight turn of the nut. The back of the tool is flat, the protractor accurate, nicely finished, and convenient for a draftsman or machinist for setting bevels, transferring angles, or for use for a T square, etc.

Price, 12/-

Pocket Scriber.



No. 1704.—Open.



Closed.

The Handle is made of steel tubing, knurled, and nickel plated. The Scriber is made of the best quality of steel, hardened, tempered, and ground, and is held by a knurled thimble chuck. The Scriber is reversible, and telescopes into the Handle, where it is held by a slight turn of the thimble chuck, so that it is always quite as safe to carry in the pocket as a penknife is.

No. 1704A. $\frac{1}{4}$ in. diameter, $2\frac{3}{8}$ in. long, 1/6

No. 1704B. $\frac{3}{8}$ in. diameter, $2\frac{7}{8}$ in. long, 2/3

Machinists' Scribes.



No. 1705.

Made out of high grade tool steel, properly tempered, knurled, and finished. Being knurled right down to the point, it ensures a firm hold.

No. 1705A. Size, 4 in. long, $\frac{5}{32}$ in. diameter, -/8 each.

„ 1705B. „ $4\frac{1}{2}$ „ „ $\frac{3}{16}$ „ „ -/9 „

Improved Adjustable Sleeve Scriber.



The knurled Sleeve has a hole clean through, with a Thimble Chuck at each end, so that various tools may be quickly inserted, either short or long, as the occasion demands. The knurled Sleeve is nickel plated. The Scriber is made in two lengths, 8 in. and 12 in. For pattern-makers, a knife-shaped Scriber, made of a fine grade of steel, is supplied as an extra.

No. 1708: 68. Either size without knife point, 2/9 each.

Knife point, -/11 each.

Extra Scriber points, -/11 each.

Surface Gauge, No. 52.

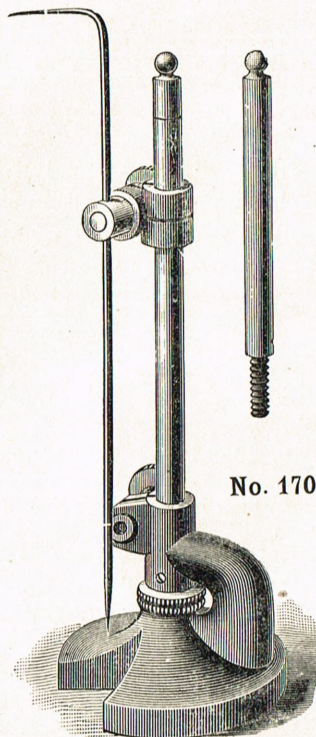
No. 1709. This Gauge, with improvements as made for a few years past, gives great satisfaction to all who use it.

The sleeve and needle clasp, when loosened for adjustment, are both held by a slight spring friction, and by a single knurled nut both are rigidly clamped. For fine adjustment the spindle in the base is raised or lowered by a knurled nut, and all backlash is taken up by a spiral spring in the base.

For above 12 in. lengths an extension is provided to couple on to the spindle.

PRICES.

8 in. ...	12/-
12 „ ...	16/-
12 „ with 6 in. extension.	18/9

**No. 1709.****New Universal Surface Gauge, No. 257s.**

With Case-hardened Steel Base.

No. 1713. This Gauge has our latest improvements, the following being points of special merit:

It has a heavy base, grooved through the bottom and end, adapting it for use on or against circular work as well as flat surfaces. The spindle passes through a rotating head, jointed to a rocking bracket, pivoted in base, the bracket being adjusted by a knurled screw in one end against a stiff spring in the other. The spindle may be set upright or at any angle, or turned so as to work under the base, and can be sensitively adjusted to any position. The snug and head carrying the scriber are so made that when the clamp nut is loosened all may be freely moved to any position, and by friction springs retained in place until a slight turn of the clamp nut holds them firmly.

In the base are four gauge pins, frictionally held, which may be pushed to bear against the edge of a surface plate, or in the slot of a planer bed for lineal work.

Special attention is called to the four gauge pins in the corners of the base, which adapt it to be used as a locomotive guide liner.

PRICES.

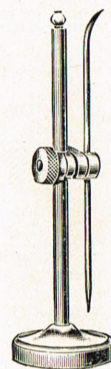
No. 257 A. 3 in. base, with 9 in. spindle ...	20/- each.
„ 257 B. 3 „ „ „ 9 in. and 12 in. spindles ...	22/- „
„ 257 C. 3½ „ „ „ 12 in. spindle ...	23/- „
„ 257 D. 3½ „ „ „ 12 in. and 18 in. spindles ...	26/- „

Moore's Surface Gauge.

No. 1710. This Gauge is a thoroughly well-made tool; good materials are used and great care is taken in the fitting of the several parts, especially the screw threads.

The scribe is made from the best Drill Rod, and both points are hardened and properly tempered.

Price, 6 in., 6/-; 9 in., 8/6; 12 in., 11/6

**No. 1710.****New Universal Surface Gauge, No. 57.**

No. 1712. This Gauge has our latest improvements, possessing the following points of merit:

Heavy base, grooved through the bottom and end, adapting it for use on or against circular work as well as flat surfaces.

The spindle passes through a rotating head, jointed to a rocking bracket, pivoted in base. Said bracket being adjusted by a knurled screw in one end against a stiff spring in the other, the spindle may be set upright or at any angle, or turned so as to work under the base, and be sensitively adjusted to any position.

The snug and head carrying the scriber are so made that when the clamp-nut is loosened, all

may be freely moved to any position, and by friction-springs

No. 1712.

retained in place until a slight turn of the clamp-nut holds them firm.

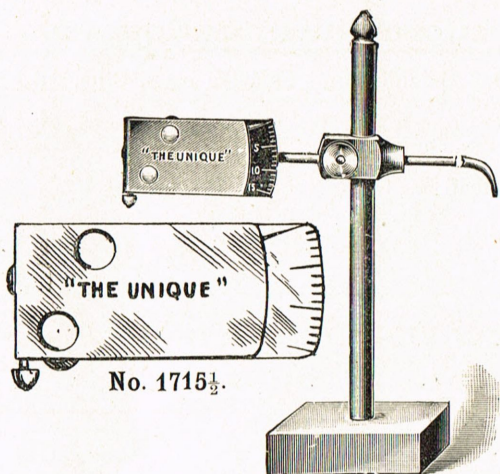
In the rear end of the base are two gauge pins frictionally held, and may be pushed to bear against the edge of a surface plate, or in the slot of a planer bed for lineal work.

For small work, the spindle may be removed and the scriber inserted in the hole provided.

An extra long spindle, which may be quickly substituted for the regular, will be sent with the gauge when ordered.

PRICES.

3 in. base with 9 in. spindle ...	14/6 each.
3 „ „ „ 9 „ and 12 in. spindles	16/6 „
3¾ „ „ „ 12 „ spindle ...	17/6 „
3¾ „ „ „ 12 „ and 18 in. spindles	20/- „



Indicator attached to Scribing Block.

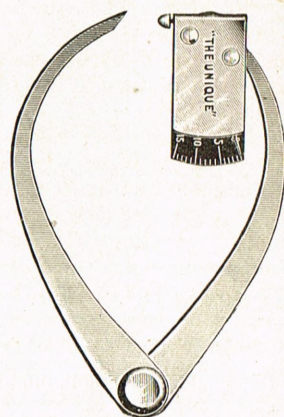
The Unique Test Indicator.

No. 1715₃. This Indicator is a cheap and effective form of test indicator, for attaching to any scribing block or callipers, for the purpose of testing the truth of work on the slab, machine table, lathe, etc.

It is fastened in a horizontal position to the scriber of the scribing block, or to one leg of the callipers, by the clamping plates on the back, a slight tightening of the nuts with the fingers being all that is necessary to hold it.

The point for contact with the work is of hardened steel.

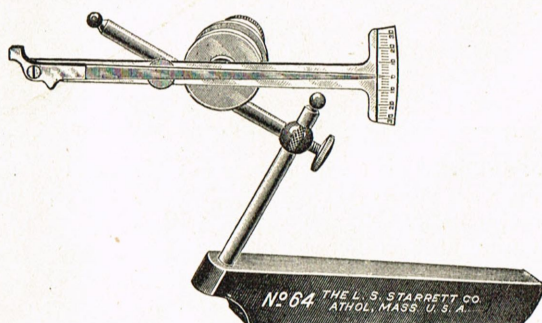
Each graduation represents one-thousandth part of an inch.



Indicator attached to
Callipers.

Price, Indicator only, **3/6**

Universal Test Indicator, No. 64.



No. 1714.

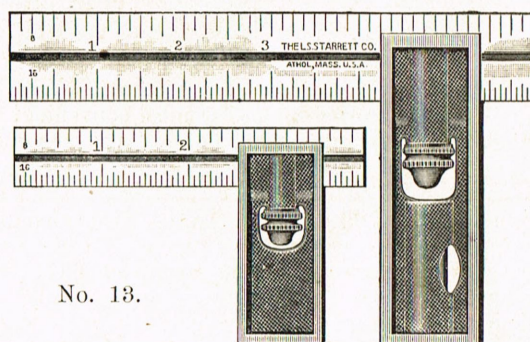
No. 1714. This indicator may be used to test inside, outside, or surface work. It can be instantly attached to the spindle or the needle of any surface gauge, and used in connection with same to show the slightest variation in thousandths. It may be clamped to a flat or round support, varying in size from a surface gauge needle up to $\frac{3}{8}$ in., flat or round. A special holder, as shown in cut, is designed to go in the tool-post of a lathe, adapting it for use to show the accuracy of all sorts of lathe work, turning, chucking, or locating and centring work on face plate. The head of the needle has three working points, equally distant from its fulcrum, so the tell-tale needle will vibrate, reading in thousandths, when work is in contact with either point—in front, above, or below it. When in front, the spring operating the tell-tale needle needs to be reversed to throw point of needle up instead of down as when used above or below the work. This may be instantly done by a slight turn of the disc to which the vibrating spring is attached. The working parts of the head are hardened. In setting the indicator, bring the contact point against the work so that the needle will point to 0, when any variation either way will show.

PRICES.

Indicator only	...	...	...	...	14/6 each.
Tool-Post Holder	...	...	...		4/3 „
Indicator, with Tool-Post Holder, complete					20/- „

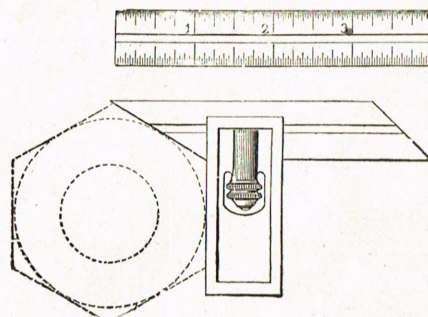
Consult pp. 86 for Surface Gauges, to any of which the Indicator may be attached.

Patent Double Square.



No. 13.

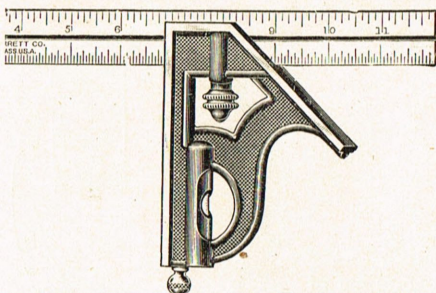
This Square is conceded the most practical one for machinists' and fine tool-makers' use ever offered. The sliding scale, shortened or extended full length, makes it more valuable than a full set of the common kind, while, with the extra level blade shown in the following illustration, we have both the hexagon and octagon angles. The seat against which the blade is clamped being convex, should corners of blade get injured, the accuracy of the Square is not affected.



This illustration represents the 4 in. and 6 in. Double Square, with hexagon end of blade applied. Reverse it, and the octagon is in position for use. Bevel blades are made to fit only 4 in. and 6 in. sizes.

PRICES.

No. 1717.	No. 13.	4 in.,	with both Blades	9/9 each.
	" 13.	6 "	" " " "	14/6 "
	" 13.	9 "	" Straight Blade	
			only	17/3 "
	" 13.	12 "	" " " "	23/ "



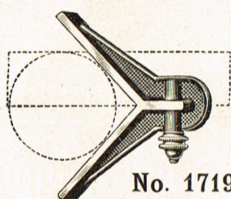
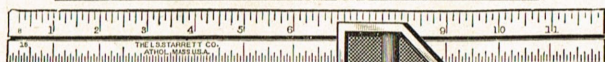
Starrett Special Combination Square.

No. 1718. Good Hard Steel Blade. Divided on one edge each, 8ths, 16ths, 32nds, 64ths.

No. 23S.

6 in.	Without Centre Head	...	9/- each.
9 "	" " " "	...	12/- "
12 "	" " " "	...	14/6 "

Starrett's Patent Combination Square, No. 11 or 11 m.



No. 1719.

With
Hardened
Blades.

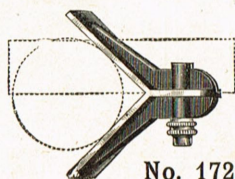
No. 1719. Every tool warranted accurate. With the adjustable scale this forms one of the most convenient and useful tools ever devised for mechanics' use. One is a complete substitute for a whole set of common try-squares, and is one of the best gauges made for transferring exact measurements, or laying out work. It is also convenient for a depth gauge, or to square in a mortise. For a mitre it is perfect, while with the auxiliary centre head it forms a centring square, both inside and outside, which for convenience and accuracy has no equal.

PRICES.

4 in., without Centre Head or Level	...	7/3 each.
6 " with Centre Head	...	12/- "
9 " " "	...	14/6 "
12 " " "	...	17/6 "
18 " " "	...	22/- "
24 " " "	...	26/- "

The 6 in., 9 in., 12 in., 18 in., and 24 in. have levels (in their stocks) and centre heads. The 18 in. and 24 in. have same stock as 12 in. Also in metric, same prices.

Drop Forged Steel Combination Squares, Starrett Patent, No. 33 or 33 m.



No. 1721.

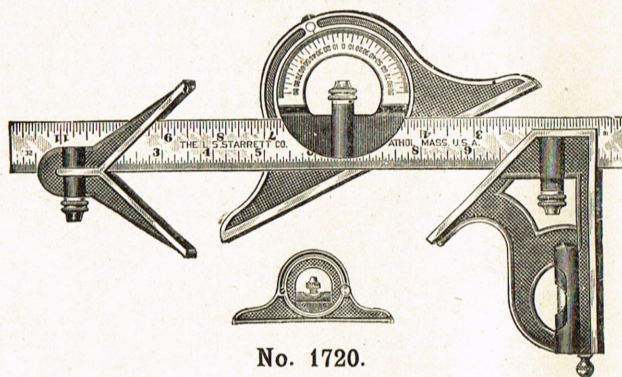
With
Hardened
Heads and
Hardened
Blades.

No. 1721. Both stock and centre head are hardened, as well as the blade, which is graduated with heavy figures reading both ways.

PRICES.

6 in., with Centre Head,	18/9	Without,	14/6
9 " " "	21/-	" "	17/6
12 " " "	23/-	" "	19/-
18 " " "	29/-	" "	25/-
24 " " "	31/-	" "	27/6

New Combination Set, No. 9 or 9 m.



No. 1720.

No. 1720. This set consists of our No. 11 Combination Square, with hardened blade, as shown opposite, and our Protractor Head, No. 12. Sent with blades of No. 4 graduation unless otherwise ordered.

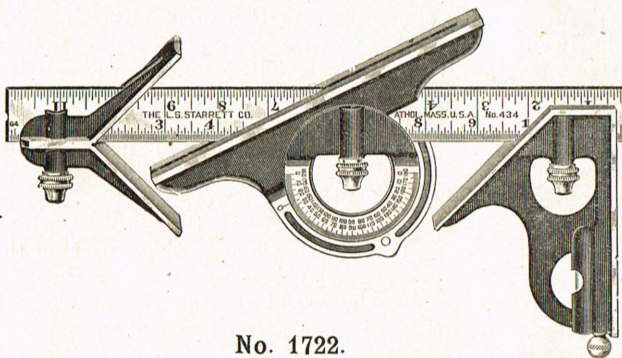
PRICES.

9 in., set complete	...	29/- each.
12 " " "	...	32/- "
18 " " "	...	35/- "
24 " " "	...	40/- "

Can also be supplied with blades graduated in millimetres and $\frac{1}{2}$ millimetres at same prices. Add m to number if so desired.

Drop Forged Steel New Combination Set, No. 434 or 434 m.

With Hardened Blade.



No. 1722.

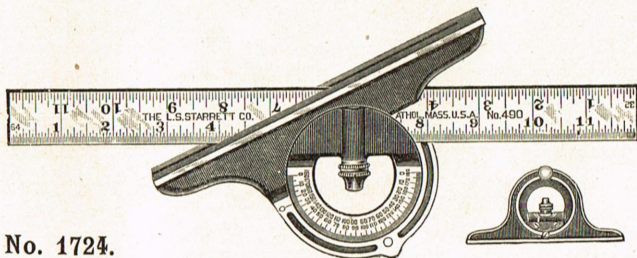
No. 1722. The set consists of our No. 33 Combination Square with hardened, drop forged stock and centre head, and our new Reversible Protractor Head, No. 490, as shown in cut.

PRICES.

9 in., set complete	...	42/- each.
12 " " "	...	43/6 "
18 " " "	...	49/- "
24 " " "	...	52/- "

New Bevel Protractor, No. 490 or 490 m.

With Hardened Blade and Reversible Head.



No. 1724.

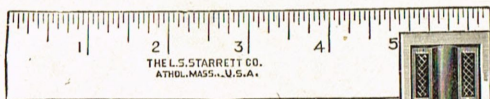
The head of this Protractor is 7 in. long and is supplied with an accurate level attached to one side as shown by cut. The heads are made with fine smooth finish to match the finish of our No. 33 Combination Squares. The heads will, however, also fit the blades of our No. 11 and No. 23 Combination Squares and our Combination Sets

PRICES. No. 490 or 490 m.

9 in. complete	...	...	26/-	each.
12 " "	...	...	27/6	"
18 " "	...	...	33/-	"
24 " "	...	...	36/-	"
Protractor Head only, with Level	...	...	20/-	"

"Reliable" Try Squares, No. 60 or 60 m.

The blade is not riveted or soldered to the stock, but is firmly held by our patent bolt and nut, by means of which the tool can be readily taken apart, and when worn the blade and stock can be reground or lapped, and put together again as good as new.

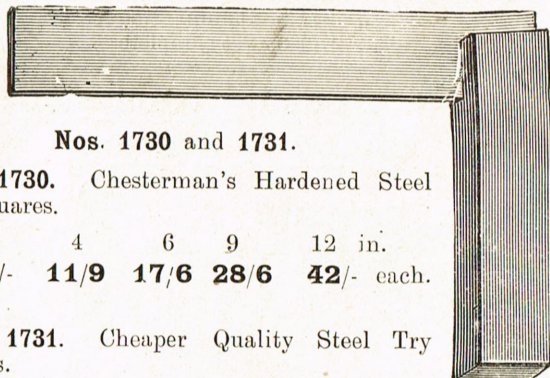


No. 1726.

Graduated Blade, not Hardened.

Length of Blade.	Length of Beam.	Price.
4 in.	2 ⁵ / ₁₆ in.	6/-
5 "	3 "	7/3
6 "	3 ⁵ / ₈ "	7/9
9 "	5 ¹ / ₁₆ "	12/3
12 "	6 "	16/-

Steel Try Squares.



Nos. 1730 and 1731.

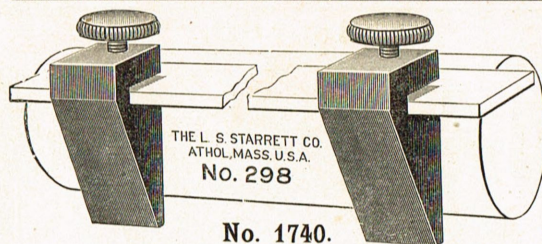
No. 1730. Chesterman's Hardened Steel Try Squares.

3	4	6	9	12 in.
10/-	11/9	17/6	28/6	42/- each.

No. 1731. Cheaper Quality Steel Try Squares.

2	3	4	5	6	9	12 in.
3/-	3/4	3/8	4/-	4/6	6/9	9/- each.

Key Seat Clamps, No. 298.



No. 1740.

No. 1740. Designed to transform any common steel scale into a Key Seat Rule.

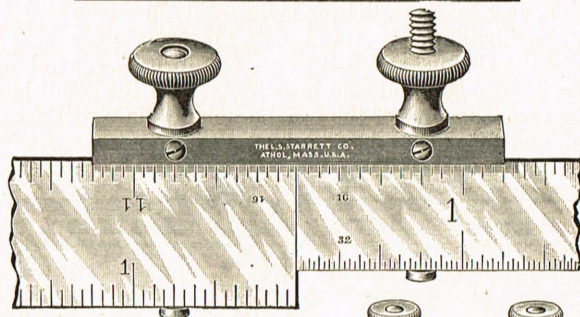
They are made from steel, case-hardened, and ground accurate.

A pair weighs but 1 oz. They can be put on or off almost instantly, and are a complete substitute for a more costly tool.

They may be used with our Combination Square blades, or with any straight rule, with accurate results.

Price, per pair 3/6

Rule Clamps, No. 299.

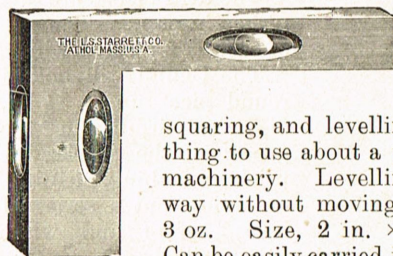


No. 1741.

No. 1741. This little tool is used to clamp two steel rules together, end to end, making one long rule. The rules may be of the same or different widths up to 1 ¹/₄ in.

Price, 2/9.

Try Square with Level.



No. 1737.

No. 1737. This is a well-made and reliable tool, and valuable in plumbing, squaring, and levelling up work. Just the thing to use about a planer or in setting up machinery. Levelling is indicated every way without moving the tool. It weighs 3 oz. Size, 2 in. x 3 in. x ¹/₂ in. thick. Can be easily carried in the pocket. Price, 9/-



No. 1732.

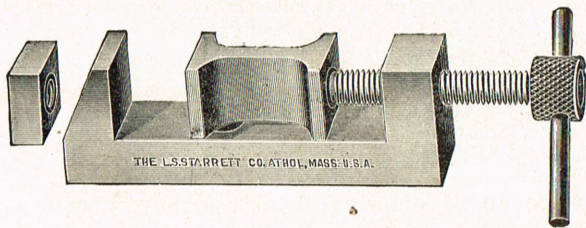
No. 1732. Chesterman's Hardened Bright Steel Try Squares, divided into 32nds on one side and 64ths on the other.

3	4	6	9	12 in.
11/-	12/9	19/6	31/-	45/6 each.

No. 1733. Cheaper Quality Steel Try Squares, divided on one edge only into 16ths, 32nds and 64ths.

2	3	4	5	6	9	12 in.
3/6	4/-	4/6	5/-	6/-	9/-	11/6 each.

Tool Makers' Steel Clamps, No. 160.

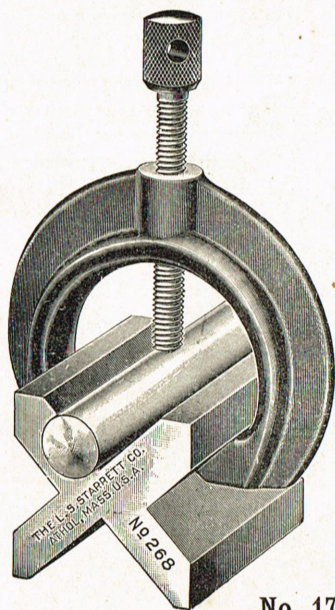
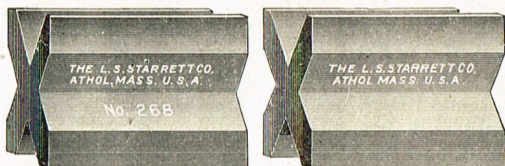


No. 1742. These Clamps are made from drop forgings, nicely finished, case-hardened, and have take-up blocks to slip on and off end of screw, and are held to same in a novel manner. They will hold

work square and parallel for laying out on surface plates, fitting or drilling. A round piece may be rigidly held in two of the Clamps and drilled on an upright central and parallel. Put up and sold in pairs. With the small block in use, the capacity of the smaller clamp is a little over 1 in., and that of the larger clamp, 2 in.

Prices ... 1 in., 11/- per pair; 2 in., 15/- per pair.

Drill Blocks and Clamp, No. 268.



No. 1749.

The drill blocks are furnished in pairs. The size of each is 2 in. by 1½ in.

The Clamp will hold a round piece up to 1½ in. diameter firmly in the groove of the Blocks, for prick punching, drilling, or laying out a series of holes before and while being drilled.

Prices.

No. 1749.

No. 268 A.

Two Drill Blocks ... 6/-

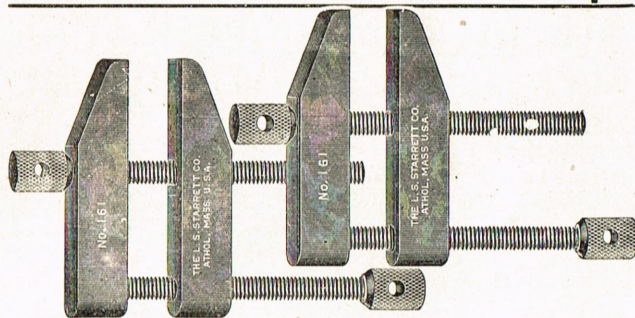
No. 268 B.

Clamp ... 2/9

No. 268 C.

Set complete ... 8/9

Tool Makers' Parallel Clamps.



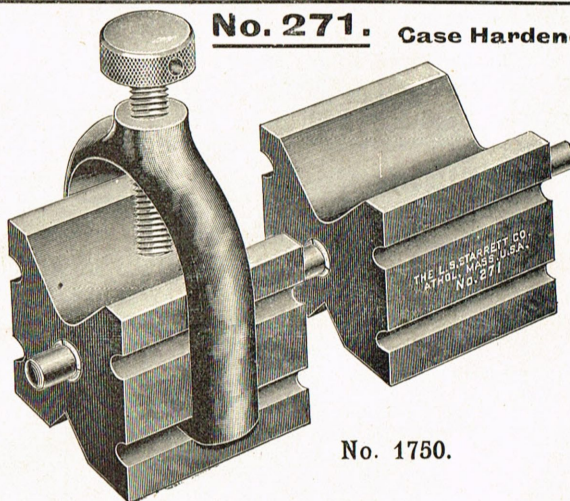
No. 1744.

Made of steel throughout, and case-hardened. Extremely useful for many fitting jobs.

Opening of Jaws ... 1¼ 1¾ 2¼ 2¾ in.
Length of Jaws ... 2 2½ 3 4 "

Price ... 8/- 9/9 11/6 13/- } per pair, or
2 Clamps.

Steel Drill Blocks and Clamp, No. 271. Case Hardened.

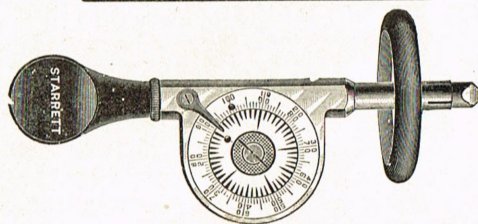


No. 1750.

No. 1750. These Blocks are designed to be used singly or in pairs in connection with drill presses and for laying out work, prick punching, etc. The Blocks may be used close together or separated, and are kept in line by a spindle passing through friction bushings. They will be found convenient when holding pieces with shoulders, which may rest between the blocks. The Blocks are 1¼ in. square and will hold round pieces to 1¼ in. diameter. The two grooves in each side take up the length and hold the clamp for small or large work.

Prices.—No. 271 A. Two Drill Blocks 12/-
" 271 B. Clamp ... 4/6
" 271 C. Set complete ... 16/6

Surface Speed Attachment for Speed Indicators.



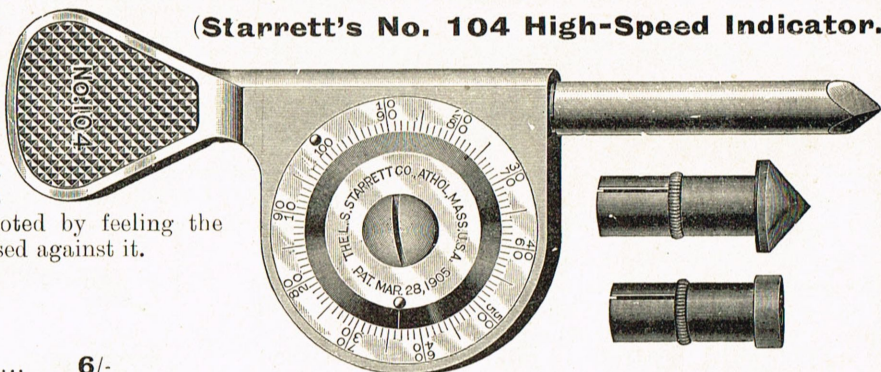
Attachment fixed on Indicator.
Price, 3/- each.

No. 1759. This attachment applied to one of our speed indicators is designed to show the number of lineal feet per minute the periphery of a shaft or pulley is running and thus enable a workman to know if the speed is too fast or is too slow to get the most work the tool will stand.

Speed Counters.

(Starrett's No. 104 High-Speed Indicator.)

No. 1756. This indicator may be run at highest speed required without heating. A late improvement consists in the rotating disc, which, being carried by friction, may be moved to the starting point where the raised knobs coincide. By releasing the pressure the disc is liberated for counting the revolutions of the shaft, when every 100 may be noted by feeling the knob pass under the thumb lightly pressed against it.



PRICES.

In cardboard box	...	...	6/-
In leatherette case	...	...	8/9

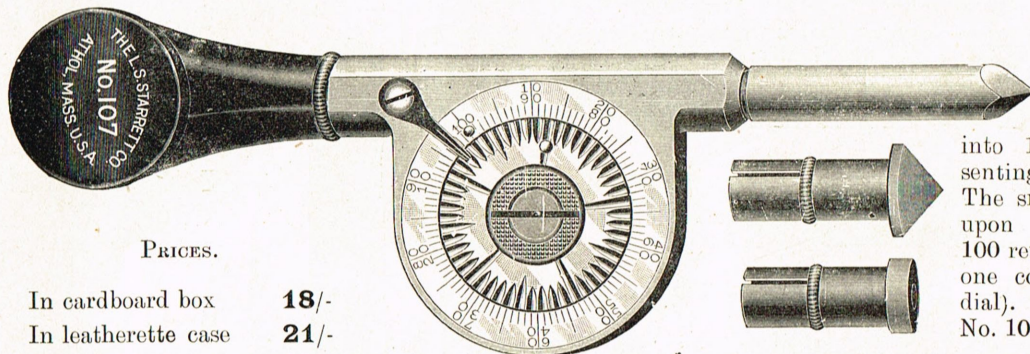
We supply the indicators with a spindle $7\frac{1}{2}$ in. long, for use on Dairy Machines, etc., for **2/9** extra

No. 1757. This pattern is similar to No. 104, as above. The graduations show every revolution, and with two rows of figures read both right and left as the shaft may run. It has a vulcanite handle so that it will not heat the fingers when run at a high speed, and makes a safe insulator when used on electrical machinery.

PRICES.

In cardboard box No. 106S.	...	...	...	...	...	...	...	...	...	9/6
In leatherette case	...	...	...	...	...	...	...	...	...	12/3

(Starrett's No. 107 Registering Speed Indicator.)



PRICES.

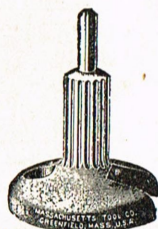
In cardboard box	18/-
In leatherette case	21/-

No. 1758. The instrument will register 5,000 revolutions. The large dial is graduated

into 100 lines, each one representing a revolution of the spindle. The small dial has 50 lines cut upon its face, each representing 100 revolutions of the spindle (or one complete turn of the large dial). Has Vulcanite Handle as No. 106.

Tool

Makers' Punch.



No. 1766.

For laying out precision work for fine drilling.

Price, **8/9**

Starrett's Centre Punches.



No. 1767.

Made to supply the demand for a better article than has heretofore been on the market. Made of fine steel, neatly shaped, with both ends tempered and points nicely ground. Length of each size, 4 in. Diameter, A, $\frac{5}{64}$ in.; B, $\frac{3}{32}$ in.; C, $\frac{9}{64}$ in.; D, $\frac{5}{32}$ in.

Price ... **1/2** each, either size.

A larger size, E, is made for heavy work—diameter, $\frac{1}{4}$ in., diameter of knurled part, $\frac{1}{2}$ in., **1/6**

Spacing Centre Punch, No. 118.

No. 1768. Starrett's Combination Prick Punch and Spacing Tool is just the thing for laying off work quickly and accurately—for drilling, cutting out dies, etc. The prick punch is solid—made from best tool steel, properly tempered. The guide point is set in a socket with a spiral spring to press it down. When the punch is struck, the guide presses back into its socket, permitting the punch to be held straight over its work, and insuring accurate results. The screw with check nut sets the spacer right for small or large drill, and has a variation from $\frac{5}{64}$ in. to $\frac{3}{8}$ in.



Price, **4/9**

Sets of Scrapers.

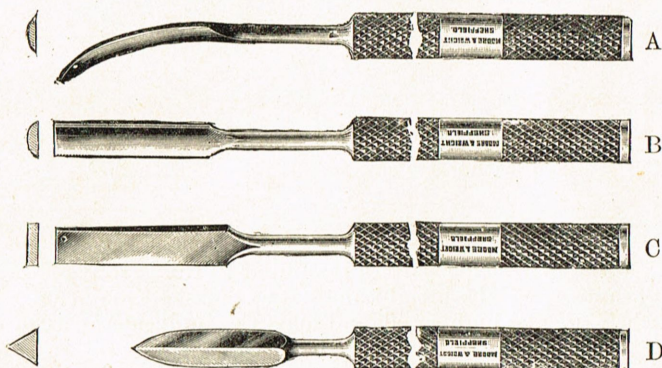
No 1770. Comprising 1 each, 6 and 8 in. half-round, 1 6 in. triangular, 1 7½ in. flat for surface work.
Price, 2/- each, either shape: or 7/6 set of 4 complete.

No. 1771. The illustrations show a very handy set of tool makers' scrapers. The handles are light and strong, being made of solid drawn steel tubing knurled for a grip. The blades are hand-forged from best cast steel ground after hardening. The shapes are flat, half-round straight, three-square and half-round curved.

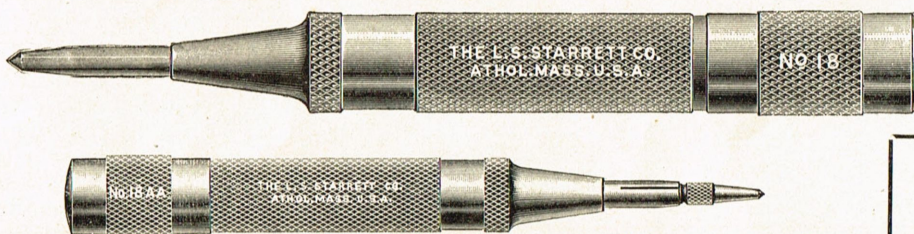
Although these scrapers are known as tool makers' scrapers, they are very useful to all metal workers. They will be found extremely handy and valuable for scraping up jobs which are inaccessible by the ordinary scraping tools.

- A. Curved half-round for use in small bearings, etc.
- B. Straight half-round for surface work.
- C. Small flat scraper for light general work.
- D. Triangular, hollow ground on sides.

6 in., either shape, 2/6 each, or 10/- per set of 4.
10 " " " 3/- " " 12/- " " " 4.
12 " " " 3/6 " " 14/- " " " 4.



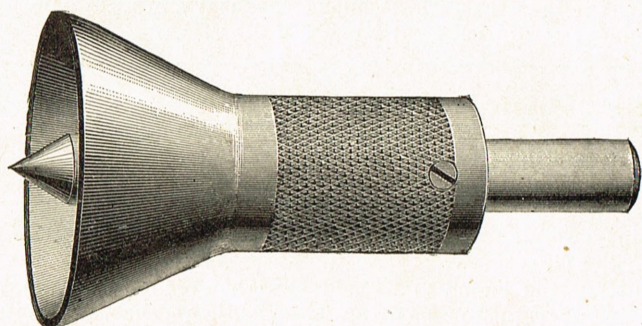
Automatic Centre Punches with Adjustable Stroke.



No. 18AA. 3/8 in. diam. 3 3/4 in. long. Price, 8/- Extra Points, 1/- each.
" **18A.** 1/2 " " 5 " " " 11/- " " 1/- "
" **18B.** 5/8 " " 6 " " " 13/6 " " 1/- "

These tools are perfect for marking out work, as all the prick marks may be made one uniform depth and size, since the blow is not struck by a hammer, but by the releasing of a spring in the handle. The power of this blow can be immediately adapted to the material, however thick or thin the sheet may be, whether of soft aluminium or hard sheet-steel. For work requiring a heavy mark, turn cap down; for a light mark, *vice versa*. The punch point may be ground without removing it. The punch, in use, is placed in an upright position over the working line, a down pressure releases the striking block and makes the impression without danger of slipping.

Bell Centring Punches.

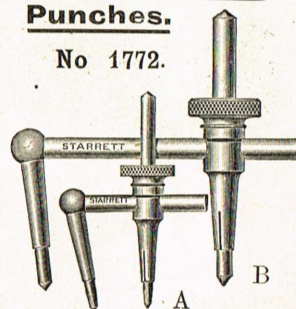


No. 1773.

Cast Iron. Size 1 with 3/16 in. punch. Diam. of bell, 1 in. Price, 5/6.
Cast Iron. Size 2 with 3/8 in. punch. Diam. of bell, 1 1/2 in. Price, 7/6.

Spacing Attachment for Starrett's Centre Punches.

No 1772.



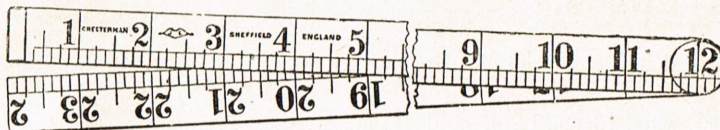
For use with Automatic Centre Punch. This Attachment is entirely self-contained, and can be instantly applied in place of the regular points. It will be found an indispensable tool for the rapid and accurate spacing of any centre distances within its range. The locating point is on the principle of a spring plunger, held in its lowest position by a light spiral spring. It is frictionally held and easily replaced.

Showing Attachment applied to Centre Punch.

The Attachment is made in two sizes. Size A has a capacity from 1/16 in. to 3/4 in., and fits either Centre Punch AA or A. Size B has a capacity from 1/8 in. to 1 3/4 in., and fits Centre Punch B.

PRICES.

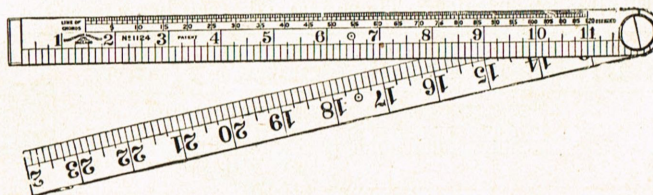
Size A ... 6/9
" B ... 6/9
Extra Points, 1/- each.

Steel Rules.

- No. 1776. Two-feet two-fold Best Hardened and Tempered Steel Rules, machine divided on both sides into eighths and sixteenths with Stop Joints and German Silver Ends, $\frac{3}{4}$ in. wide by No. 21 W.G., 3/-; ditto, $\frac{7}{8}$ in. wide by No. 19 W.G., 4/- each.
- „ 1777. Two-feet two-fold Steel Rules, Machine Divided, with Stop Joint forming Square and Rule, $1\frac{1}{8}$ in. wide by No. 19 W.G., divided on two edges into eighths and sixteenths, 7/- each.
- „ 1778. Two-feet two-fold Steel Rules as above, but marked on four edges, 8ths, 16ths, 32nds, and 64ths, 9/- each.

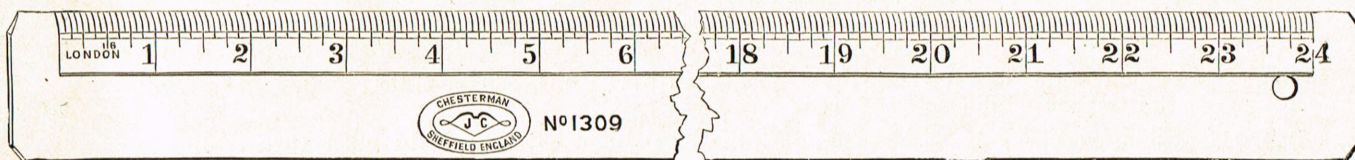
Patent Rules.

For Measuring or Setting Out Angles to any Degree.



This Jointed Rule has an accurate Scale of Chords engraved on one side, from 0° to 120°, advancing by half degrees, and is also provided with two centre-dots, one on each blade, by which, with the aid of a pair of Dividers, the Rule can be set to any desired angle, or vice-versa, any angle can be determined.

- No. 1779. 2 ft. long by $\frac{7}{8}$ in. wide, with G.S. ends, graduated 8ths and 16ths on both sides, 4/9 each.
- „ 1780. 2 ft. long by $1\frac{1}{8}$ in. wide, fitted with Double Stop Joint, forming straight-edge and square, graduated 8ths, 16ths, 32nds, and 64ths on two edges, 9/- each.
- „ 1781. 2 ft. long by $1\frac{1}{8}$ in. wide, as No. 1780, but divided on three edges into 16, 32, 64; 10, 20, 50, 100; 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, and 25ths, and Tapping and Spanner sizes, millimetres and halves on other edge, 12/- each.

Steel Straight Edges.

- No. 1782. Bright Hardened and Tempered Straight Edges, with one edge bevelled, and with hole at end, angle of Bevel 16°.

$$12 \times 1\frac{3}{8} \times \frac{7}{100} \text{ in.} \\ \mathbf{4/6}$$

$$24 \times 1\frac{1}{2} \times \frac{7}{100} \text{ in.} \\ \mathbf{9/6}$$

$$30 \times 1\frac{3}{4} \times \frac{8}{100} \text{ in.} \\ \mathbf{12/-}$$

$$36 \times 1\frac{3}{4} \times \frac{8}{100} \text{ in.} \\ \mathbf{14/6}$$

$$18 \times 1\frac{3}{8} \times \frac{7}{100} \text{ in.} \\ \mathbf{7/-}$$

$$48 \times 2 \times \frac{9}{100} \text{ in.} \\ \mathbf{21/-}$$

$$60 \times 2\frac{1}{4} \times \frac{9}{100} \text{ in.} \\ \mathbf{28/-}$$

$$72 \times 2\frac{1}{2} \times \frac{1}{10} \text{ in.} \\ \mathbf{38/-}$$

- „ 1783. Machine divided into 16ths, as illustration, Bright Hardened and Tempered Steel Straight Edges,

$$12 \times 1\frac{3}{8} \times \frac{7}{100} \text{ in.} \\ \mathbf{6/-}$$

$$24 \times 1\frac{1}{2} \times \frac{7}{100} \text{ in.} \\ \mathbf{14/-}$$

$$30 \times 1\frac{3}{4} \times \frac{8}{100} \text{ in.} \\ \mathbf{17/6}$$

$$36 \times 1\frac{3}{4} \times \frac{8}{100} \text{ in.} \\ \mathbf{21/-}$$

$$18 \times 1\frac{3}{8} \times \frac{7}{100} \text{ in.} \\ \mathbf{10/6}$$

$$48 \times 2 \times \frac{9}{100} \text{ in.} \\ \mathbf{31/-}$$

$$60 \times 2\frac{1}{4} \times \frac{9}{100} \text{ in.} \\ \mathbf{40/-}$$

$$72 \times 2\frac{1}{2} \times \frac{1}{10} \text{ in.} \\ \mathbf{52/6}$$

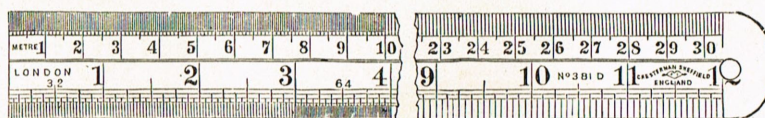
- „ 1784. Engineers' Bright Steel Straight Edges with one edge Bevelled to an angle of about 30° and with hole at end.

$$12 \times 1\frac{3}{4} \times \frac{3}{16} \text{ in.} \quad 18 \times 1\frac{3}{4} \times \frac{3}{16} \text{ in.} \quad 24 \times 1\frac{3}{4} \times \frac{3}{16} \text{ in.} \quad 36 \times 2\frac{1}{2} \times \frac{1}{4} \text{ in.} \quad 48 \times 3 \times \frac{5}{16} \text{ in.} \quad 60 \times 3\frac{1}{2} \times \frac{3}{8} \text{ in.} \\ \mathbf{11/6} \quad \mathbf{15/6} \quad \mathbf{22/6} \quad \mathbf{40/-} \quad \mathbf{60/-} \quad \mathbf{80/-}$$

- No. 1785. Iron Straight Edges, $1\frac{1}{2}$ in. by $\frac{1}{8}$ in., marked both sides on one edge, inches and 8ths.

$$24 \quad 36 \quad 48 \quad 60 \text{ by } 2 \quad 72 \text{ by } 2 \text{ in.} \\ \mathbf{2/6} \quad \mathbf{4/6} \quad \mathbf{6/6} \quad \mathbf{9/6} \quad \mathbf{13/6}$$

Machine Divided Steel Rules and Straight Edges.

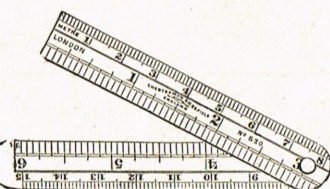


These Rules are made of the best hardened and tempered steel, are true and straight on the edges, and are machine divided.

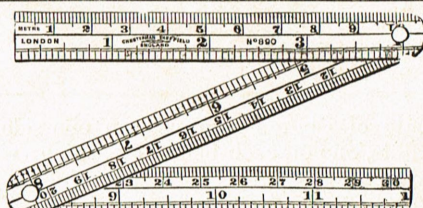
		3	4	6	12	24 in.
1788.	Marked on one edge, 8ths, 16ths, 32nds, and 64ths	1/11	1/11	1/-	1/9	5/3
1789.*	Ditto, two edges, 8ths, 16ths, 32nds, and 64ths	1/-	1/-	1/2	2/2	6/9
1790.*	Ditto, two edges, 16ths, 32nds, 64ths; 10ths, 20ths, 50ths and 100ths	1/3	1/3	1/5	2/3	8/6
1791.	Ditto, four edges, 8ths, 16ths, 32nds, 64ths	1/5	1/5	1/9	2/6	—
1792.*	Ditto, four edges, 8ths, 16ths, 32nds, 64ths; 10ths, 20ths, 50ths, 100ths; 12ths, 24ths, 48ths, 96ths	—	1/9	2/-	3/2	—
1793.	Ditto, four edges, 16ths, 32nds, 64ths; 10ths, 20ths, 50ths, 100ths; 12ths, 24ths, 48ths 96ths; millimetres and half-millimetres	—	1/9	2/-	3/2	—
1794.*	Ditto, four edges, 16ths, 32nds, 64ths; millimetres and half-millimetres and also Tapping and Spanner sizes	—	1/9	2/-	3/6	—
1795.	Ditto, two edges, 16ths, 32nds, 64ths, and Tapping and Spanner sizes	—	1/3	1/5	2/3	—

Narrow and Flexible Steel Rules. Those marked * can be so supplied at same prices.

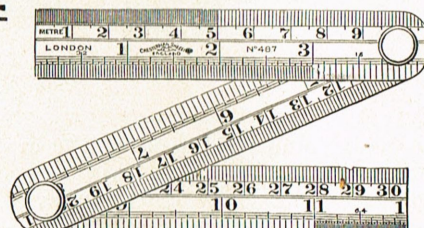
Machine Divided Steel Pocket Rules.



Nos. 1798, 1799, and 1800.
Half Size.
12 in. long by 1/2 in. wide by 21 W.G.,
and folds into two.



Nos. 1801, 1802, and 1803.
Half Size.
12 in. wide by 25 W.G. thick, and
4 in. joints.



Nos. 1804, 1805, and 1806.
Half Size.
It is 12 in. long and 3/4 in. wide,
and folds into three.

1798.	Marked on one side into inches and 16ths, centimetres into millimetres	...	...	...	...	1/9
1799.	Ditto one side into inches, 16ths, 32nds, and 64ths	...	...	...	...	1/9
1800.	Ditto one side into inches, 16ths, 32nds, 64ths, and centimetres into millimetres and halves	...	...	...	...	2/-
1801.	Ditto one side into inches, 16ths, 32nds, and 64ths	...	...	...	12 in.	2/6
1802.	Ditto one side into inches, 16ths, 32nds, and 64ths, centimetres into millimetres and halves, 1 ft., 2/9; 2 ft., 5/6; 1 metre	...	...	...	...	7/-
1803.	Marked on both sides inches, 16ths, 32nds, 64ths; 10ths, 20ths, 50ths; 12ths, 24ths, 48ths, centimetres into millimetres and halves	...	...	...	12 in.	3/6
1804.	Marked on one side only. One edge into 16ths, 32nds, and 64ths, and the other edge centimetres into millimetres and halves	...	...	...	...	4/6
1805.	Inches into 16ths, 32nds, and 64ths; centimetres into millimetres and half-millimetres. Scales, 1/8, 1/4, 3/8, 1/2, 3/4, and 1 in. Marked on both sides	...	...	...	...	5/6
1806.	Inches into 16ths, 32nds, 64ths; 10ths, 20ths, 40ths, 50ths, 100ths; 12ths, 24ths, 48ths, and 96ths; centimetres into millimetres and halves. Marked on both sides	...	...	...	...	5/6

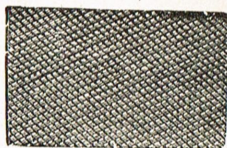
Pattern Makers' Contraction Rules in Steel.

Steel Contraction Rules. These Rules are made of best hardened and tempered Steel and are Machine divided. The 12 in. Rules are 1 1/8 in. wide by 4/100 in. thick; the 24 in. are 1 1/8 in. wide by 5/100 in. thick. They can be supplied divided to either 1/8 in., 1/4 in., 1/10 in., 1/5 in., or 3/16 in. contraction to the foot as may best suit the metal used. For general purposes a contraction of 3/16 in. to the foot is common for Brass, of 1/10 in. to the foot for Steel or Iron, 1/8 in. to the foot for Double Steel or Iron are those in most usual demand.

1809.	Contraction Rules marked Standard on one edge and any one contraction on the other edge as desired, 12 in., 2/3; 24 in., 7/-	...	...	...	...	...
1810.	Contraction Rules marked Standard on two edges and any two contractions on other two edges, 12 in., 3/-	...	...	...	...	...
1811.	Contraction Rules marked Standard on one edge and contractions for Brass, Iron, and Double Iron on other edges; 12 in., 3/3; 24 in., 11/6	...	...	...	...	...
1812.	Metre Contraction Rules marked Metre Standard on one edge and Contraction for each Iron and Brass on other two edges; 1/2 metre long, 11/6	...	...	...	...	...

FILES.—Best Cast Steel Files and Rasps.

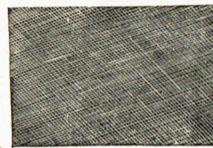
The three following Cuts are engraved from files 12 in. long. If longer than 12 in., the Cuts will be larger; if shorter, they will be less in proportion.



Bastard.



Second Cut.



Smooth.



	3	4	5	6	7	8	9	10	12	14	15	16 in.
No. 1824. Flat Bastard	-/7	-/7	-/8	-/9	-/10	1/-	1/2	1/4	1/9	2/6	3/-	3/6
„ 1825. „ Second Cut	-/8½	-/8½	-/10	-/11	1/1	1/3	1/5	1/7	2/-	2/9	3/3	3/11
„ 1826. „ Smooth	-/10	-/10	-/11	1/1	1/2	1/5	1/7	1/10	2/2	3/-	3/6	4/4



	3	4	5	6	7	8	9	10	12	14	15	16 in.
No. 1827. Half Round Bastard	-/9	-/9	-/11	1/1	1/3	1/5	1/7	1/9	2/2	3/-	3/6	4/2
„ 1828. „ Second Cut	-/10	-/10	1/-	1/2	1/4	1/7	1/9	2/-	2/5	3/3	3/11	4/7
„ 1829. „ Smooth	1/-	1/-	1/2	1/4	1/6	1/8	1/11	2/2	2/8	3/6	4/4	5/3



	3	4	5	6	7	8	9	10	12	14	15	16 in.
No. 1830. Round Bastard	-/7	-/7	-/8	-/9	-/10	1/-	1/2	1/4	1/9	2/6	3/-	3/6
„ 1831. „ Second Cut	-/8½	-/8½	-/10	-/11	1/1	1/3	1/5	1/7	2/-	2/9	3/3	3/11
„ 1832. „ Smooth	-/10	-/10	-/11	1/1	1/2	1/5	1/7	1/10	2/2	3/-	3/6	4/4



	3	4	5	6	7	8	9	10	12	14	15	16 in.
No. 1833. Square Bastard	-/7	-/7	-/8	-/9	-/10	1/-	1/2	1/4	1/9	2/6	3/-	3/6
„ 1834. „ Second Cut	-/8½	-/8½	-/10	-/11	1/1	1/3	1/5	1/7	2/-	2/9	3/3	3/11
„ 1835. „ Smooth	-/10	-/10	-/11	1/1	1/2	1/5	1/7	1/10	2/2	3/-	3/6	4/4



Also Three Squares at same prices.

	3	4	5	6	7	8	9	10	12	14	15	16 in.
No. 1836. Hand Bastard	-/9	-/9	-/11	1/1	1/3	1/5	1/7	1/9	2/2	3/-	3/6	4/2
„ 1837. „ Second Cut	-/10	-/10	1/-	1/2	1/4	1/7	1/9	2/-	2/5	3/3	3/11	4/7
„ 1838. „ Smooth	1/-	1/-	1/2	1/4	1/6	1/8	1/11	2/2	2/8	3/6	4/4	5/3



No. 1839. Horse Rasps, either Half File, or Half File Reverse, or Quarter File, 14 in., 3/-; 15 in., 3/6; 16 in., 4/2 ea.



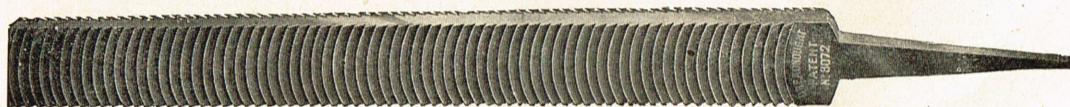
Pillar-Files, No. 1840.



Warding Files. No. 1843.

	4	5	6	8	10 in.		4	5	6 in.
No. 1840. Pillar Files	-/9	-/11	1/1	1/5	1/9	No. 1842. Feather-edge Files	1/2	1/4	1/6
„ 1841. Knife-edge Files	1/2	1/4	1/6	—	—	„ 1843. Warding Files, assorted patterns ...	-/9	-/11	1/1

FOR SAW FILES, CABINET FILES, AND RASPS, SEE PAGE 25.

Patent Dreadnought Milling Files. Tanged Pattern.**Tanged Pattern Dreadnought Hand Files.**

No. 1845. Cuts equally well Soft and Tool Steel, Cast and Wrought Iron, Bronze, and all other hard metals, and, owing to its self-clearing properties, is the only file which will cut Brass, Lead, Aluminium, and other soft metals without clogging.

				Regular Cut.	Fine Cut.	Extra Fine.
6 in.	...	...	...	1/3	1/4	1/6
8 "	...	...	...	1/7	1/10	2/-
10 "	...	...	...	2/-	2/4	2/6
12 "	...	...	...	2/6	2/9	3/-
14 "	...	...	...	3/6	3/9	4/-

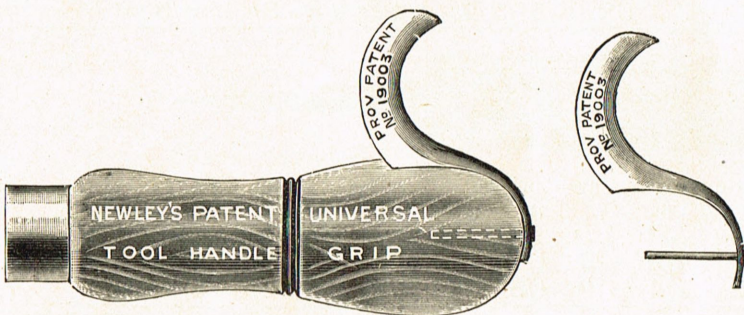
Auto Milling File.

One coarse side for soft metals, one smooth side for hard metals.

No. 1846. Length, 10 in., **2/6**; 12 in., **3/3** each, including Handle.

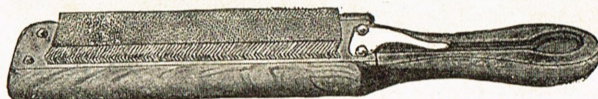
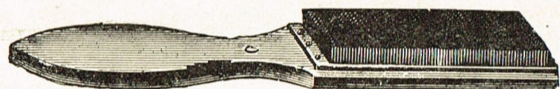


No. 1847. Improved Shoe Rasps $\frac{1}{2}$ File; 8 in., **1/8**; 10 in., **2/-** each.

Nurse's Patent Universal Tool Handle Grips.

Our Improved Grips will be found to give the user a greatly increased power over the tool, and will also lessen the strain on the palm of the hand, as the pressure which formerly came entirely upon the palm of the hand is by its use now divided in the same manner as it always has been in the case of a Jack Plane Handle, and the user's power and control over his work is correspondingly increased.

- No. 1848.** Nurse's Patent Tool Handle Grips, in Bright Steel, **-/6** each.
„ 1850. Single Samples complete with best fitted File Handles, **-/8** each.
„ 1851. Best Ash File Handles, **2/-** and **2/6** dozen.

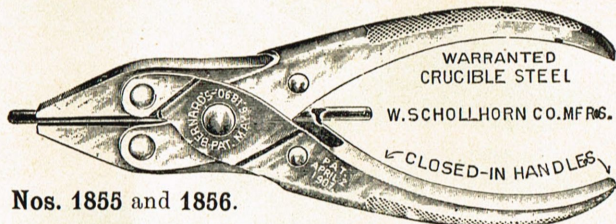
File Cleaners or Wire Brushes.

No. 1853. Mounted on Handle, 2 in. wide, **-/6** each.

„ 1854. Superior Quality, Mounted on Leather, with Polished Handle, **2/6** each.

The "Bernard" Patent Pliers (with Hollow Open Throats).

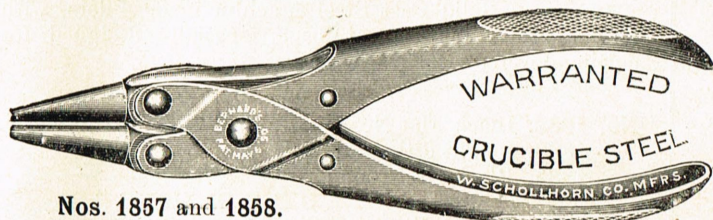
These Pliers are constructed on an entirely new principle, of crucible steel throughout, including rivets. Their quality is superior to that of all others, and their durability, strength, and gripping or cutting power is double that of any other plier on the market. They are nickel plated, the Cutting Pliers with steel bolts and lock-nuts, together with other improvements, making these goods as near to perfection as possible.

**Flat-nose Pliers.**

	Sizes	4½	5½	6½	7	8 in.
No. 1855. No. 100.	Prices	3/3	4/3	5/3	6/3	8/- per pair.

Jewellers' or Light Flat-nose Pliers.

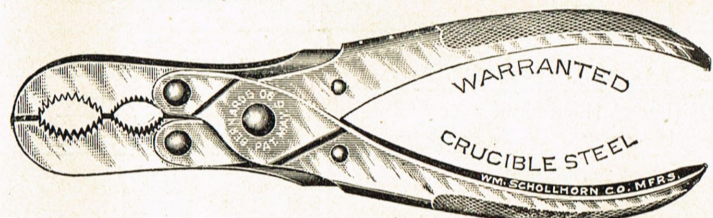
	Sizes	3½	4	4½	5 in.
No. 1856. No. 103.	Prices	2/9	3/-	3/3	3/9 per pair.

**Round-nose Pliers.**

	Sizes	4½	5½	6½	7	8 in.
No. 1857. No. 101.	Prices	3/3	4/3	5/3	6/3	8/- per pair.

Jewellers' or Light Round-nose Pliers.

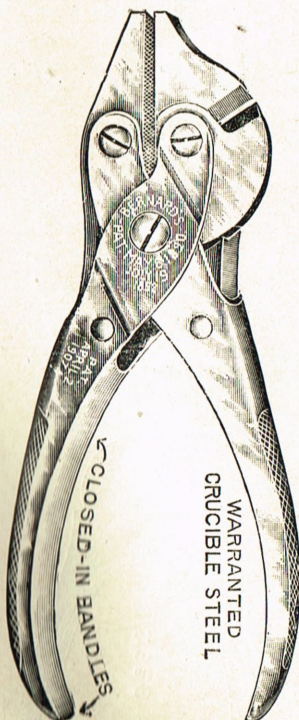
	Sizes	4	4½	5 in.
No. 1858. No. 104.	Prices	3/-	3/3	3/9 per pair.

**Two-Hole Gas Pliers.**

No. 1908. One-hole, 5 in.	...	3/9 per pair.
" " " 6 "	...	4/9 " "
" 1909. Two-hole, 7 "	...	6 3 " "

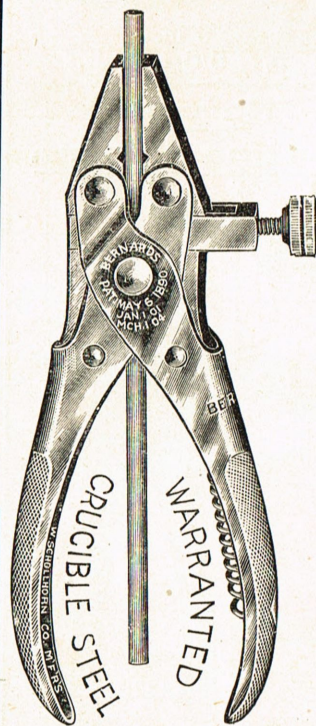
Cutting Pliers.

No. 1861.



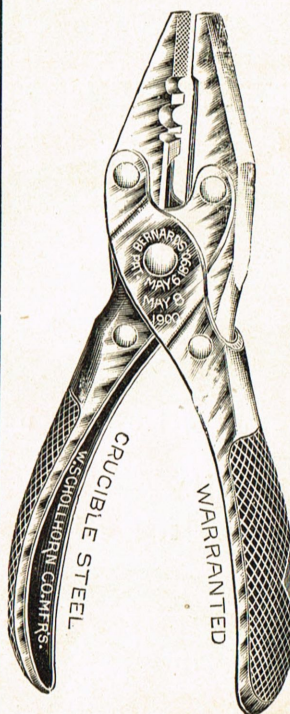
Sizes 4½ 5½ 6½ 7 8 in.
Prices 6/- 7/6 9/- 10/6 13/- per pair.

No. 1862. Above Pliers with Insulated Handles, 8" Price, 15/6 per pair.

Vice Pliers.

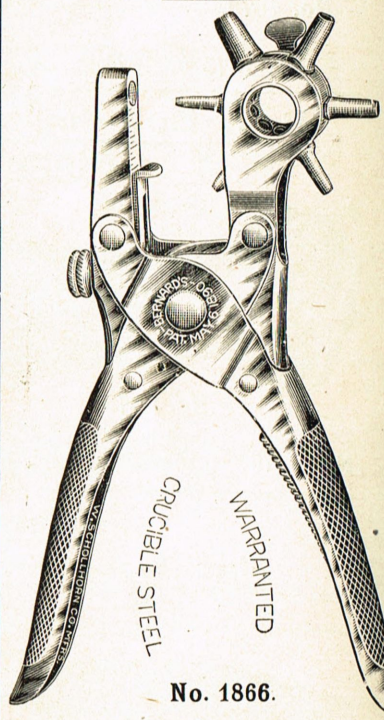
No. 1864. No. 113. Price, 5 in., 5/3; 6½ in., 6/9 per pair.

This Plier can be used as a Wrench or Hand Vice for small articles.

Electricians' Pliers.

No. 1865. No. 111. Price, 5½ in., 5/9 per pair.

This Plier is especially made for cutting and stripping Insulated Wire.

Revolving Belt Punch Pliers.

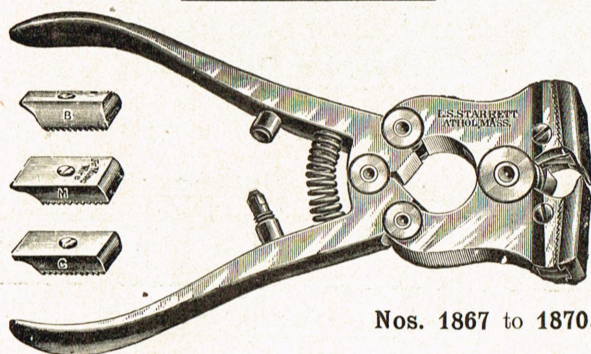
No. 1866.

No. 186. Price, 8 in., 12/6 per pair. With 6 Screwed Tubes and Adjustable Gauge.

Open Throat, Parallel Jaws, Full Nickel Plated. Extra tubes, 1/- ea.

No. 1865½. No. 171. Single Hole Belt Punch Pliers, 7 in., 6 3 per pair.

Starrett's Adjustable Jaw Cut-Nippers.

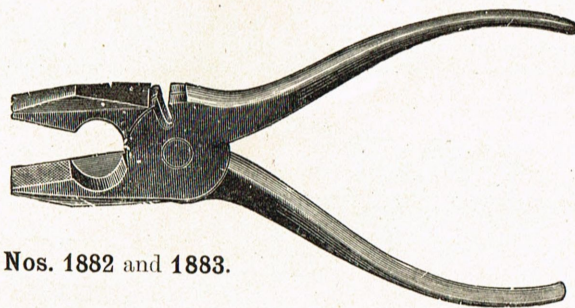


Nos. 1867 to 1870.

The 5½ in. Nippers open ⅛ in., and the 7 in. open ⅝ in.

No. 1867.	5½ in., M (for music wire)	...	16/-	per pair.
„ 1868.	5½ „ C (for common use)	...	16/-	„
„ 1869.	5½ „ B (for bicycle use)	...	16/-	„
„ 1870.	7 „ either M, C, or B	...	19/6	„
Extra Jaws, either M, C, or B, which should be designated as above				2/9 „

Electrical Pliers.



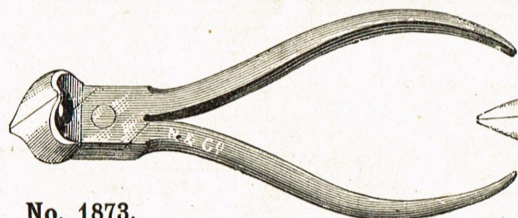
Nos. 1882 and 1883.

Improved Solid Cast Steel Machine-made Pliers, with large circular opening at back, specially designed for cutting covered electrical wires.

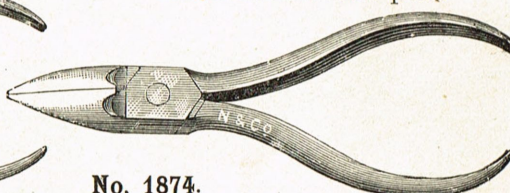
	5½	6	7	8 in.	
No. 1882.	Black Flat Nose	3/-	3/3	4/3	5/9 per pair.
„ 1883.	Bright ditto	3/9	4/-	5/-	6/6 „
„ 1884.	Black Half-round Nose	3/6	3/9	4/9	6/3 „
„ 1885.	Bright ditto	4/3	4/6	5/6	7/- „

Best Quality Top or Side Cutting Nippers.

Either Pattern same price.



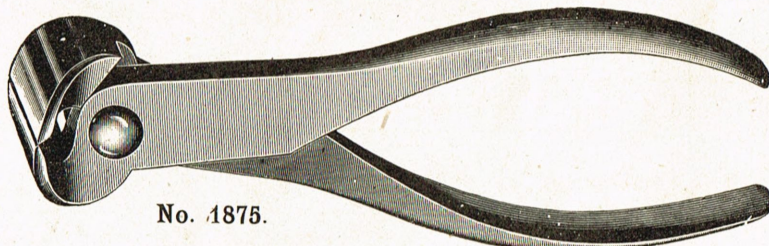
No. 1873.



No. 1874.

	4	4½	5	5½	6 in.	
No. 1873 or 1874	4/3	4/6	4/9	5/-	5/6	per pair.

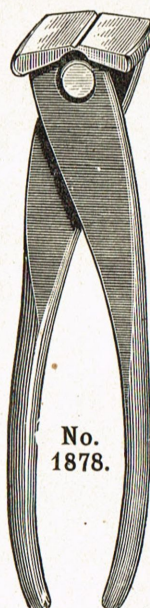
Best Bull-dog End Cutting Nippers.



No. 1875.

No. 1875. 5 in., 4/6; 6 in., 5/-; 7 in., 6/-; 8 in., 7/- per pair.

Hercules Cutting Nippers.



No. 1878.

No. 1878. 7 in., 6/6; 9 in., 9/6; 12 in., 14/- per pair.

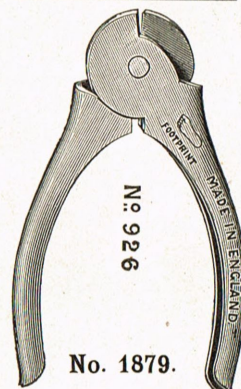
Lancashire Made Manchester Cutting Nippers.



No. 1877.

	8	10	12 in.	
	10/6	12/6	16/6	per pair.

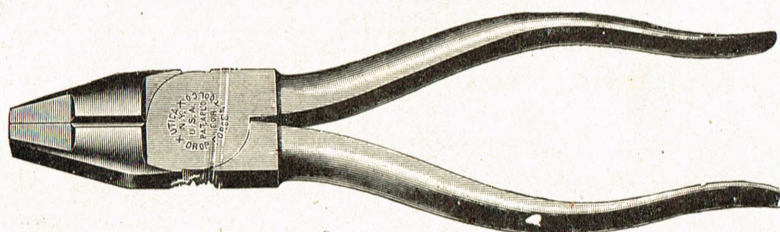
Domino Pocket Wire Cutter.



No. 1879.

1/- per pair.

Best Quality Flat Nose Side-cutting Pliers.

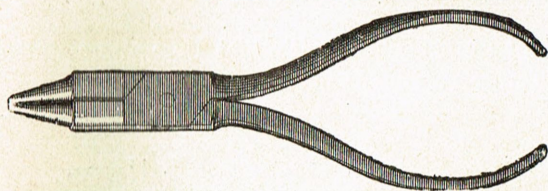


	4	5	5½	6	7	8 in.	
No. 1886.	Black	4/-	4/6	5/-	5/6	6/-	7/- per pair.

Side-cutting and Long-reach Cutting Pliers.

Best Quality Warranted

Bell Pliers.

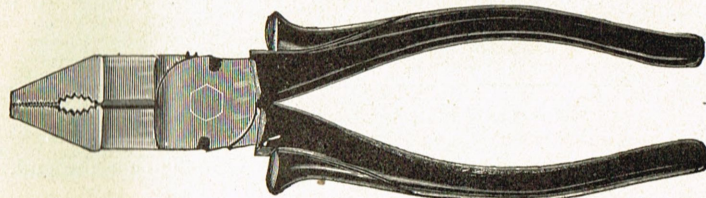


No. 1880.	Round Nose	...	5	5½	6	6½	7 in.
„ 1881.	Flat Nose	...	3/6	3/6	4/-	5/-	6/- per pair.
			2/6	2/6	3/-	4/-	4/6 „

Best Quality Cutting Pliers.

No. 1889.

With polished Ebonite-covered handles for telegraph and electrical workers.

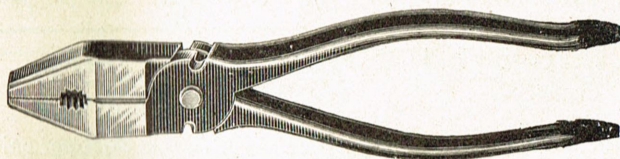


6	7	8 in.
4/6	5/6	6/6 per pair.

The Insulation Cover to these pliers is unbreakable.

Best' Quality Motor Pliers.

With Side and Joint Cutters, Burner Hole, and Turncrew end.

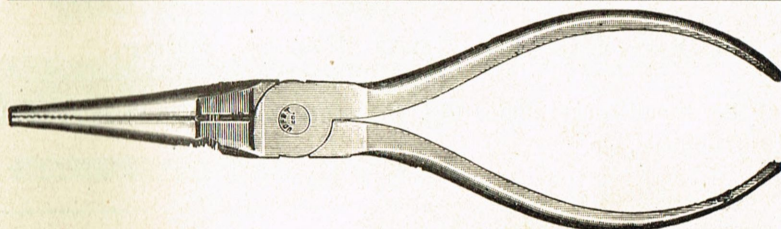


No. 1890.	...	...	5	6	7	8 in.
			2/6	3/-	3/6	4/- per pair.

Long-reach Side-cutting Pliers.

No. 1887. 6 in. ... 5/- per pair.

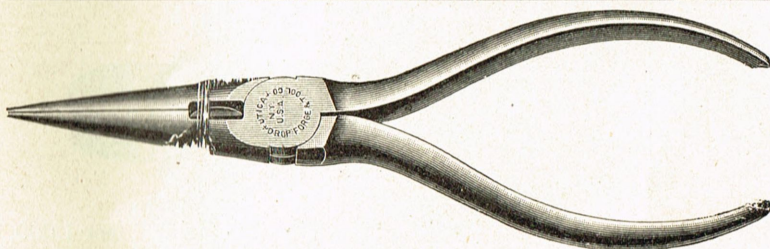
The long nose is indispensable for working* in deep and narrow places. Especially useful for telephone and switch-board builders.



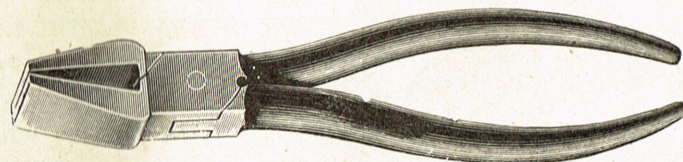
Long Nose, Needle Point, Side cutting Pliers.

No. 1888. 6 in. ... 5/- per pair.

Used by telephone manufacturers, machinists, jewellers, engineers, opticians, electricians, etc.



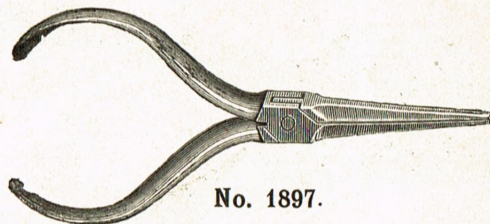
Glass Pliers.



No. 1895.

6	7	8 in.
4/-	4/9	5/6 per pair.

Long Flat Nose Pendulum Pliers.



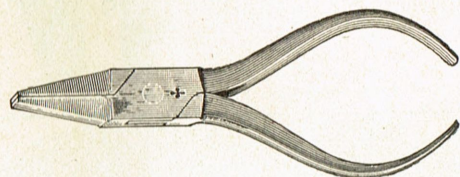
No. 1897.

Black 3½ in., 2/3; 4 in., 2/3; 4½ in., 2/6 per pair.

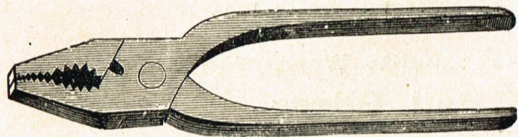
Flat and Round Nose Pliers.

Nos. 1893 and 1893½ are Flat Nose.

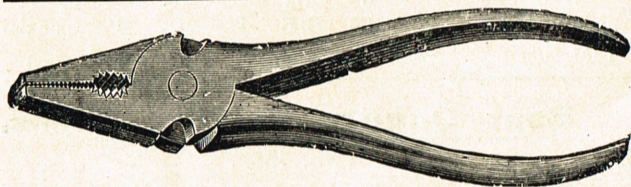
„ 1894 „ 1894½ „ Round Nose. Both Patterns are same prices.



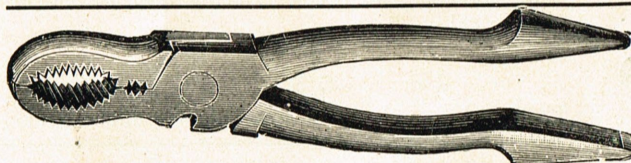
Nos. 1893 and 1894.	Best Quality	...	4	4½	5	5½	6	7	8 in.
„ 1893½ „ 1894½.	Medium Quality	...	2/-	2/-	2/2	2/4	2/6	3/9	5/- per pair.
			1/2	1/3	1/6	1/9	2/-	2/9	3/6 „

Burner and Gas Pliers.**All Bright Burner Pliers.**

No. 1898. All Bright Burner Pliers, with Flat Nose, Wire Cutter, and Turncrew end, $5\frac{1}{2}$ in., $2\frac{2}{3}$

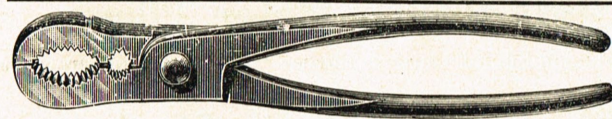
**Bright Steel Burner Pliers.**

No. 1899. With Flat Nose and two Wire Cutters, 6 in., $3\frac{1}{2}$ per pair.

**Wrought Steel Gas Pliers.**

With Wire Cutter, Pipe Opener, and Turncrew end.

No. 1901. Black Finish $\frac{6}{2\frac{1}{6}}$ $\frac{7}{2\frac{2}{9}}$ $\frac{8}{3\frac{1}{6}}$ $\frac{9}{4\frac{1}{6}}$ 10 in. $5\frac{1}{2}$ per pair.

**Improved 2-Hole Gas Pliers.**

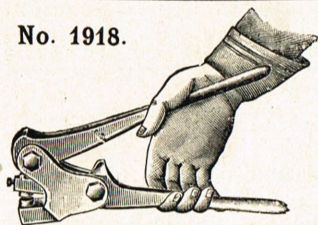
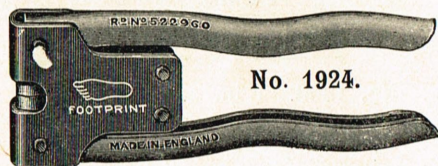
No. 1905. ... $\frac{6}{2\frac{1}{3}}$ $\frac{8}{3\frac{1}{3}}$ $\frac{9}{4\frac{1}{2}}$ 10 in. $4\frac{1}{8}$ per pair.

No. 1918.

Nickel Plated Seal Press Plier.

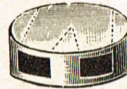
No. 1918. Small Nickel Plated Lead Sealer for Milk Cans, Postal Parcels, Electrical Instruments, etc.

6 by $\frac{7}{16}$ in., $11\frac{1}{6}$ per pair.

**Lead Seal Closer.**

No. 1924.

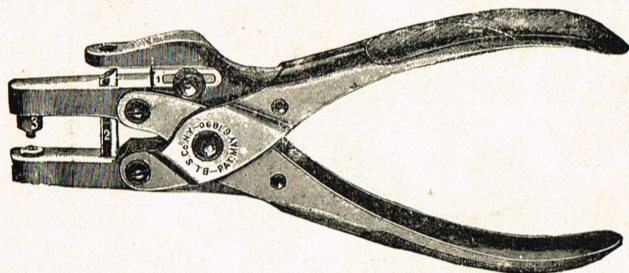
No. 1924. 7 in. For one hand, all black, for $\frac{5}{8}$ in. and $\frac{3}{4}$ in. lead seals. Price, $6\frac{1}{2}$

Lead Seals.

No. 1925.

$\frac{7}{16}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ in.
 $6\frac{1}{6}$ $9\frac{1}{2}$ $14\frac{1}{2}$ $21\frac{1}{2}$ per 1,000.
 11 $1\frac{1}{2}$ $1\frac{1}{8}$ $2\frac{1}{6}$ per 100.

Special low prices will be quoted for lots of 5,000

**The "Triumph" Eyelet Punch.**

No. 1927. The "Triumph" Eyelet Punch. With parallel movement for Eyeletting papers, etc. Nickel plated.

Length, $6\frac{1}{2}$ in. Price, $13\frac{1}{6}$ each.

Boxes of 250 Eyelets for above—Nos. 1, $9\frac{1}{2}$; 2, $1\frac{1}{2}$; 3, $1\frac{1}{3}$ per box.

EYELETS FOR USE WITH PUNCH.



No. 1927,

No. 1.

No. 2.

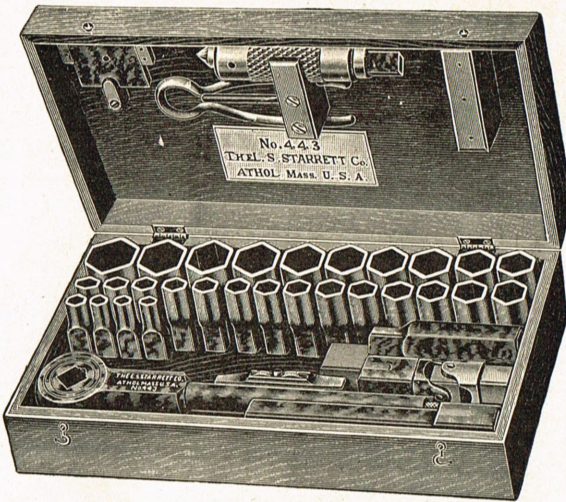
No. 3.

No. 4.

Motor Punches.

No. 1938. No. 87. Size, 6 in. long, $\frac{3}{8}$ in. diam., $1\frac{1}{3}$ each.
" 1939. " 88. " 7 " " $\frac{1}{2}$ " " $1\frac{1}{6}$ "

These Punches have been introduced to meet the growing demand for a reliable article for knocking out taper pins, etc. They are made of cast steel, are nicely knurled in the middle for a grip, are hardened both ends, and the size will be found very handy.



No. 1954.

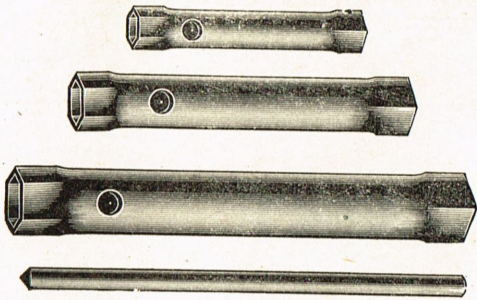
Starrett Patent Ratchet Wrench.

This wrench is made from drop forged and other steel—all finished in a workmanlike manner, case-hardened, and strong where strength is needed, yet light and convenient to handle. The ratchet can be instantly reversed by simply rotating between thumb and finger the stem end of the dog in the end of the handle half a turn. Hexagon drawn steel sockets, varying by 32nds from $\frac{5}{16}$ in. to $1\frac{1}{4}$ in., have duplicate shanks to fit the square opening through the ratchet head, also the end of a square extension piece which fits the ratchet where they are frictionally held, and will reach otherwise inaccessible places. A universal joint is also made to fit this extension piece to turn a nut otherwise difficult to get at. A screwdriver with reversible blades of two sizes also fits the extension, and may be used with or without the wrench.

A first-class drilling fixture is made to fit the ratchet head, which will hold any size of twist drill from $\frac{1}{8}$ in. to $\frac{1}{2}$ in., with which drilling can be done in difficult places to best advantage, the feed being done with our special friction wrench sent with each.

PRICES.

A, complete	...	...	...	...	...	...	...	...	88/-
B, without Drill Fixture	...	...	...	...	...	...	...	...	70/-

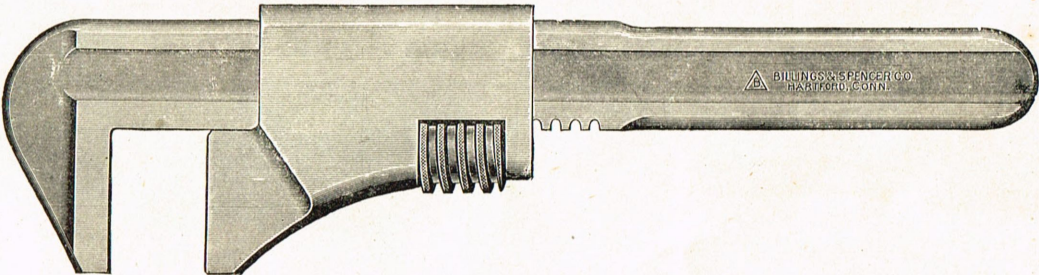


Double-ended Tubular Motor Spanners.

No. 1965. Set of 3 with Tommy, fine finish, containing six Whitworth Nut sizes for Motor Cars, $\frac{1}{4} \times \frac{5}{16}$ in., $\frac{3}{8} \times \frac{7}{16}$ in., $\frac{1}{2} \times \frac{5}{8}$ in., **4/6** per set,
No. 1967. Ditto, ditto, containing six French Nut sizes for Motor Cars. 6 m.m. $\times$ 7 m.m., 8 m.m. $\times$ 10 m.m., 12 m.m. $\times$ 16 m.m., **4/6** per set.
No. 1967 $\frac{1}{2}$ Double Ended Tubular Spanners, Singly :

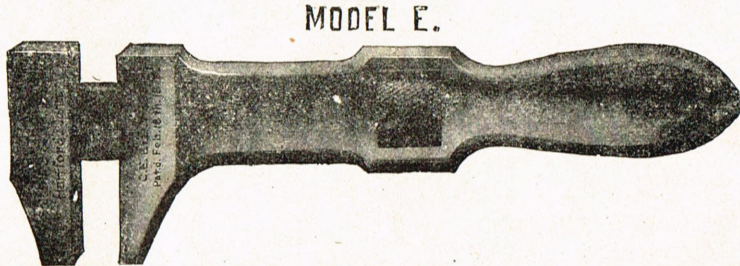
$\frac{3}{16} \times \frac{1}{4}$ in.	1/2	$\frac{7}{16} \times \frac{1}{2}$ in.	2/-	$\frac{5}{8} \times \frac{3}{4}$ in.	3/-
$\frac{1}{4} \times \frac{5}{16}$ "	1/3	$\frac{1}{2} \times \frac{5}{8}$ "	2/6	$\frac{3}{4} \times \frac{7}{8}$ "	3/9
$\frac{5}{16} \times \frac{3}{8}$ "	1/4	$\frac{1}{2} \times \frac{9}{16}$ "	2/6	$\frac{7}{8} \times 1$ "	5/-
$\frac{3}{8} \times \frac{7}{16}$ "	1/6	$\frac{9}{16} \times \frac{5}{8}$ "	2/6	$1 \times 1\frac{1}{4}$ "	6/6

Drop Forged Steel Automobile Wrenches.



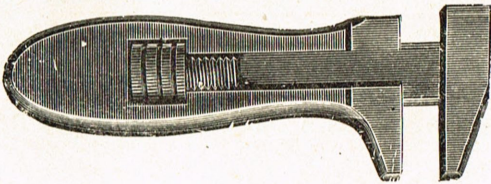
No. 1972. Billings' Original	...	...	...	...	8	10	12	14	18 in.
	...	...	...	...	5/6	6/-	9/-	12/-	16/6 each.

Improved Drop Forged Adjustable Wrenches. Billings' make.



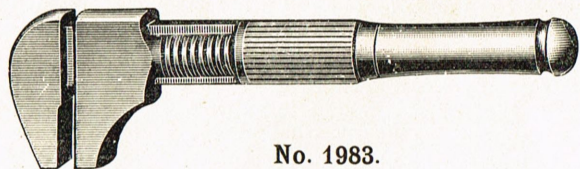
MODEL E.

		A	B	D	E
Length closed	...	4 $\frac{1}{2}$	5	6	7 in.
Opens	...	1	1	1 $\frac{1}{2}$	1 $\frac{3}{4}$ "
Weight	...	7	7 $\frac{1}{2}$	11	19 oz.
No. 1974. Black Finish		5/-	5/-	6/-	7/- ea.
" 1975. Nickel Plated		6/-	6/-	7/-	8/6 "



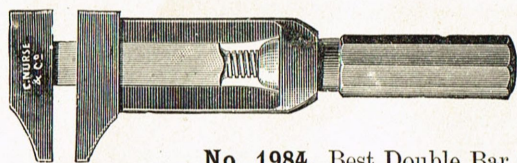
The King Dick Spanner.

Nos.	...	...	0	1	2	3
Length	...	...	3	4	6	8 in.
Price	...	...	4/3	5/6	9/9	16/-

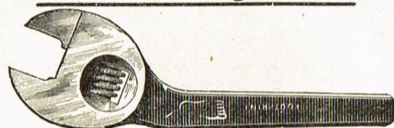
Palmer's Registered Screw Wrenches.**No. 1983.**

Length	...	...	...	6	8	10	12	14	16	18	21	24 in.
Span	...	...	...	1	1 $\frac{1}{4}$	1 $\frac{3}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$ "
Price	...	...	...	10/6	12/-	14/6	18/-	22/-	26/-	32/-	38/6	45/- each.

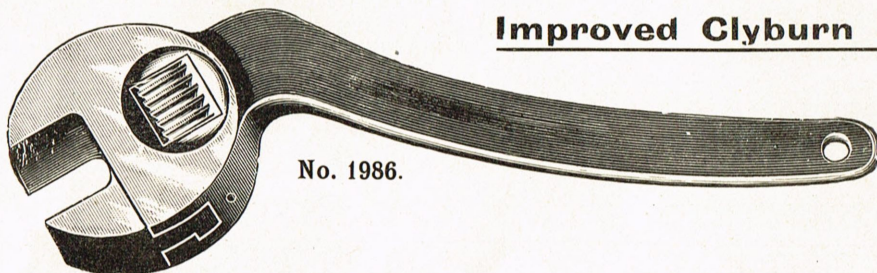
These Wrenches having fixed handles, when once adjusted by the milled collar to the nut or bolt, will not unscrew or relax their hold in using. They are made of the best Wrought Iron, well finished, and case hardened all over.

Best Double Bar Wrench.**No. 1984. Best Double Bar Wrench.**

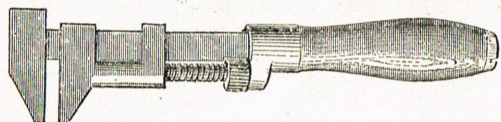
8 in., 11/-; 9 in., 11/6; 10 in., 12/-; 12 in., 14/-

Motor Clyburn.**No. 1985.**

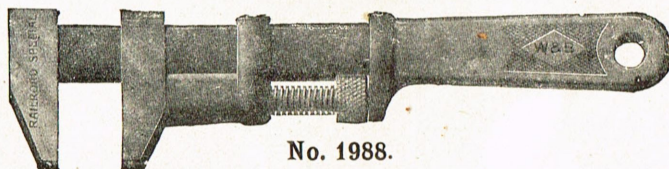
Wrought Iron, with Bright Jaws.
Length, 5 $\frac{1}{2}$ in., opening, $\frac{1}{4}$ to $\frac{7}{8}$ in. Price, 10/6

Improved Clyburn Spanners.**No. 1986.**

Length	...	...	...	6	8	10	12	15	18	21	24	26 in.
Span	...	...	...	$\frac{5}{8}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$ "
Price	...	...	...	6/-	7/-	9/-	11/-	13/6	17/6	21/-	26/6	35/6 each.

**No. 1987.**

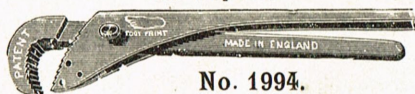
No. 1987.	Wood Handled American	...	...	...	...	...	...	...	...	...	...	...
" 1988.	Improved Steel Wrench, Drop Forged	...	...	...	...	...	...	...	...	...	...	...

**No. 1988.**

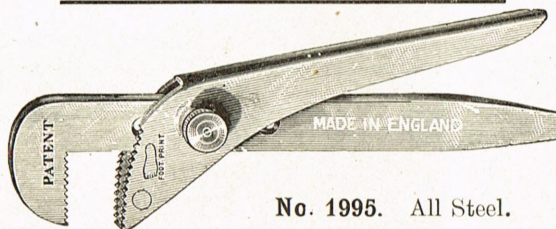
	6	8	10	12	15 in.
	3/6	4/-	4/9	6/-	8/- each.
	6/-	7/-	8/6	10/6	14/- "

Firm Grip Pipe Wrenches,

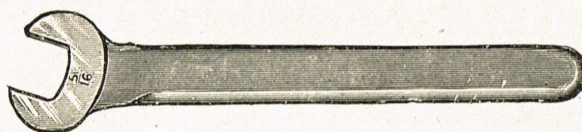
With Broad-Faced Hooked Upper Jaws for Pipes.

**No. 1994.**

No. 0.	12 in. long, holds pipes $\frac{3}{8}$ in. to 1 in., Weight, 2 $\frac{1}{2}$ lb.	...	...	...	...	...	...	...	...	...	...	...
No. 1.	15 in. long, holds pipes $\frac{1}{2}$ in. to 1 $\frac{1}{2}$ in., Weight, 3 $\frac{1}{4}$ lb.	...	...	...	...	...	...	...	...	...	...	...
No. 2.	21 in. long, holds pipes $\frac{3}{4}$ in. to 2 $\frac{1}{2}$ in., Weight, 7 $\frac{1}{2}$ lb.	...	...	...	...	...	...	...	...	...	...	...
No. 3.	30 in. long, holds pipes 1 in. to 3 $\frac{1}{2}$ in., Weight, 12 lb.	...	...	...	...	...	...	...	...	...	...	...

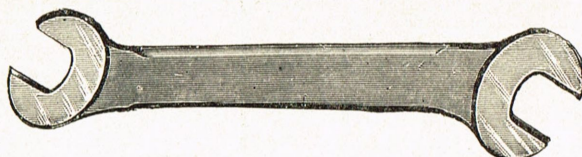
Foot Print Wrenches.**No. 1995. All Steel.**

Size, closed	4	5 $\frac{3}{4}$	7	9	12	14	16	21 in.
Grips	$\frac{1}{16}$ -1	$\frac{1}{16}$ -1 $\frac{1}{2}$	$\frac{1}{16}$ -1 $\frac{1}{2}$	$\frac{1}{8}$ -2 $\frac{1}{2}$	$\frac{1}{4}$ -3	$\frac{1}{4}$ -3	$\frac{1}{2}$ -3 $\frac{3}{4}$	$\frac{1}{2}$ -4 $\frac{1}{4}$ "
Weight	3 $\frac{1}{4}$ oz.	7 oz.	9 oz.	20 oz.	42 oz.	3 lb.	5 $\frac{1}{4}$ lb.	7 lb.
Price,								
Black Finish	1/5	1/9	2/-	3/3	5/-	6/-	10/9	14/6

Wrought Steel Single End Spanners.**Best Quality Heavy.**

No. 1992. First Quality Finish. Filed all over and Case Hardened, with Bright Jaws with sizes marked on. To fit Whitworth Standard Nuts of Bolt Sizes as under:

Length over all	4½	4½	5	6	6¾	7½	9	11	13	15	17	19	21	23	25 in.
Size of Bolt	⅛	⅜	¼	⅝	¾	⅞	1	1½	1¾	2	2½	3	3½	4	4½
Price	-/8	-/8	-/8	-/9	-/10	1/-	1/2	1/8	2/4	3/-	4/9	5/6	6/6	8/6	12/6 each

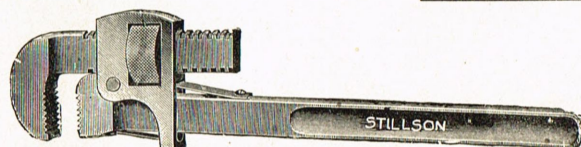
Wrought Steel Double Ended Spanners.**Best Quality Heavy.**

No. 1993. First Quality Finish. Filed all over and Case Hardened, with Bright Jaws with sizes marked on. To fit Whitworth Standard Nuts of Bolt Sizes as under:

Length over all	4	4	4¾	6	6	7½	7½	8½	8½	10	11½	in.
Size of Bolts	⅛ × ⅜	⅛ × ¼	⅜ × ¼	¼ × ⅝	¼ × ¾	⅝ × ¾	⅝ × ⅞	¾ × ⅞	¾ × 1	1 × 1¼	1½ × 1¾	1½ × 2
Price	-/9	-/10	-/10	1/-	1/3	1/3	1/6	1/6	1/9	2/2	2/8	each.
Length over all	11½	12½	14	16	18	20	22	24	26	28	31	in.
Size of Bolts	⅞ × 1	1 × 1¼	1¼ × 1½	1½ × 1¾	1¾ × 2	2 × 2¼	2¼ × 2½	2½ × 2¾	2¾ × 3	3 × 3½	3½ × 4	each.
Price	2/8	3/6	5/-	6/9	9/6	12/9	18/6	24/9	35/-	42/6	55/-	each.

Actual sizes of Whitworth Nuts which above spanners take in —

Bolt Sizes given above	⅛	⅜	¼	⅝	¾	⅞	1	1½	1¾	2	2½	3	3½	4	4½
Taking in Nuts	21/64	29/64	33/64	19/32	45/64	53/64	29/32	11/16	13/32	119/64	131/64	143/64	155/64	23/32	237/64

Stillson's Pipe Wrenches.

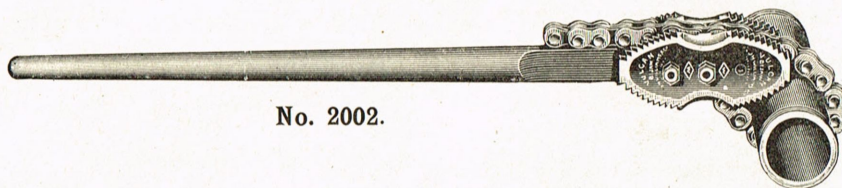
6 in. to 48 in., with Steel Handle.

These Wrenches grip firmly without loss of motion; release readily; never lock. They will also readily grip square, hexagonal, or almost any irregular shaped piece.

No. 2001.															
Length open, in inches				...	...	6	8	10	14	18	24	36	48		
Takes from				...	...	{	$\frac{1}{8}$ in. wire	$\frac{1}{8}$ in. wire	$\frac{1}{8}$ in. wire	$\frac{1}{4}$ in. wire	$\frac{1}{4}$ in. wire	$\frac{1}{4}$ in. wire	$\frac{1}{4}$ in. wire	1 in. wire	
							to	to	to	to	to	to	to	to	
							$\frac{1}{2}$ in. pipe	$\frac{3}{4}$ in. pipe	$1\frac{1}{4}$ in. pipe	$1\frac{3}{4}$ in. pipe	$2\frac{1}{2}$ in. pipe	3 in. pipe	4 in. pipe	5 in. pipe	
Prices, each				...	...	...	...	5/6	6/6	7/6	10/6	14/6	21/-	38/6	56/6

"Invicta" Bijaw Chain Pipe Wrench.

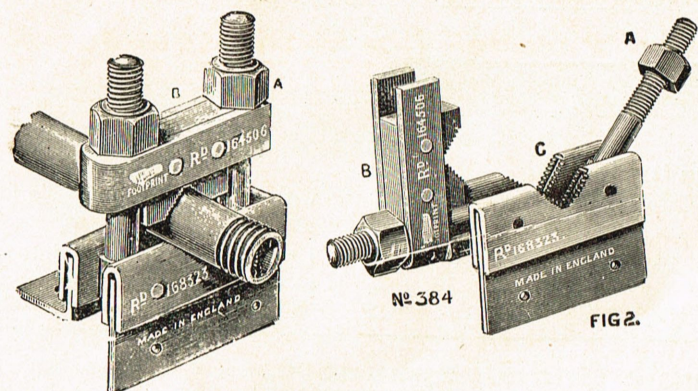
For Gripping, Turning, or Holding Pipe, Bolts, Shafts, or Round Surfaces from ½ in. to 12 in. in Diameter.



No. 2002.

These wrenches are strong and durable, being manufactured wholly from wrought steel. The jaws are of saw temper; the teeth can be sharpened by filing only.

Size	...	...	Number	30	31	32	33	33½	34	35
Capacity Size Pipe	...	...	Inches	1½ to 2	1½ to 1½	1½ to 2½	2 to 4	1 to 6	1½ to 8	2 to 12
Price	...	...	Each	14/-	19/6	28/-	39/-	50/-	61/-	100/-
Length, over all	...	...	Inches	13¾	20	27	37	41½	50½	64½



Foot Print Portable Tube Vices.

Made entirely of wrought iron and steel. The jaws are so constructed that they grip the tube at ten different places at once, so the tubes cannot slip, and there is no back thrust. The front is flush, so that tube can be threaded right up.

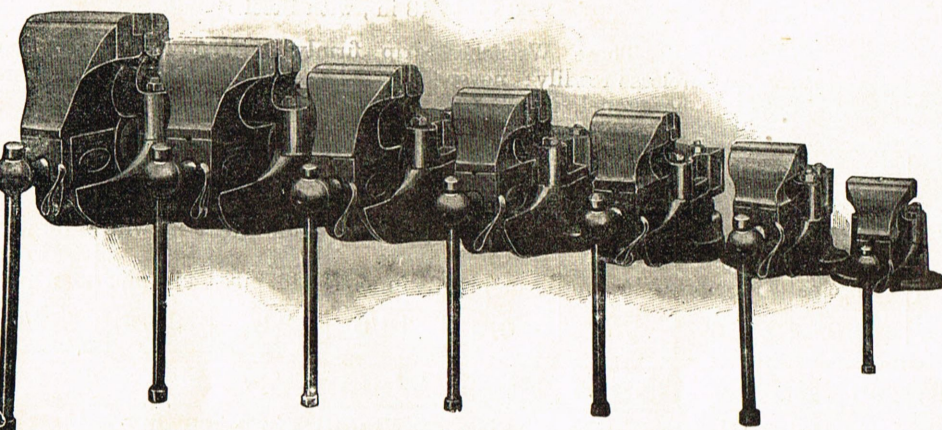
No. 2004.	No. 2004½.	No. 2005.
Grips from 1/8 to 1½ in. tube.	Grips from 1/4 to 2 in. tube.	Grips from 1/2 to 3 in. tube.
Weight, 4½ lb.	Weight, 7 lb.	Weight, 14 lb.
Price, 15/6 each.	Price, 26/- each.	Price, 42/6 each.

Foot Print Pocket Tube Vice.

No. 2006. For tube 1/8 to 3/4 in. Weight, 13 oz. Price, 6/3 each. This pattern is made without the supplementary bottom jaws for light work.

Parkinson's Patent "Perfect" Vice, Screw, and Sudden or Instantaneous Grip Combined.

No. 2012. Dimensions and Prices (carriage forward).

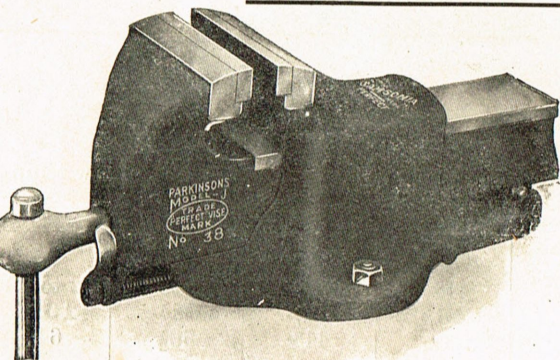


No.	Width of Jaw—in.	Depth of Jaw—in.	Opening—in.	Weight—lb.	Price. £ s. d.
4	3	2	3¼	13	1 10 0
5	3¼	2½	3½	33	2 2 0
6	3¾	3¼	4½	42	2 11 0
7	4¼	3¾	4¾	59	3 0 0
8	5¼	4½	6½	77	3 9 0
8a	6	4½	6½	80	3 18 0
9	6½	5	8½	113	4 7 0
9a	7	6½	9½	171	6 0 0

"Samsonia" All Steel "Perfect" Vices.

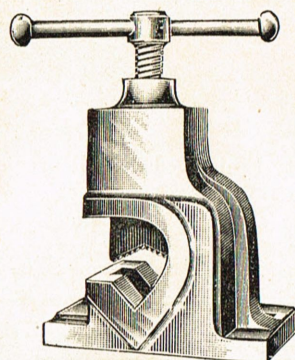
No. 2013.

"Samsonia," Model J (All Steel).



No.	Width of Jaw.	Depth of Jaw.	Opening.	Weight.	Price. £ s. d.
37	4¼ in.	3 in.	5 in.	42 lb.	3 4 0
38	5¼ "	3¾ "	6 "	55 "	3 13 6
38A	6 "	3¾ "	7 "	68 "	4 3 6
39	6½ "	4¼ "	8 "	80 "	4 16 0

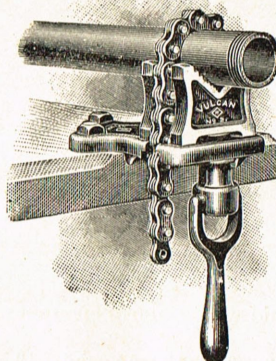
Tube Vice.



- No. 2008. Open pattern.
- No. 1. To grip 1/8 to 1¼ in. tube. Weight, 16½ lb. Price, 15/6 each.
- No. 2. To grip 1/4 to 2 in. tube. Weight, 33 lb. Price, 21/- each.
- No. 3. To grip 1/4 to 3 in. tube. Weight, 45 lb. Price, 28 6 each.
- No. 4. To grip 1/4 to 4 in. tube. Weight, 77 lb. Price, 38/6 each.

Frames, cast iron. Screw, steel. Grip, steel and hardened.

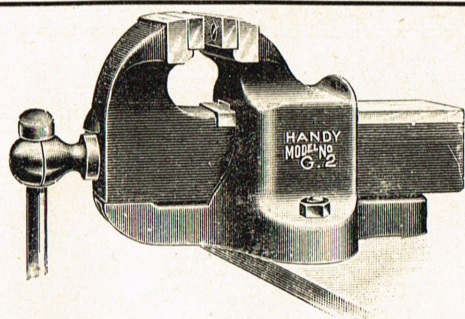
Vulcan Chain Pipe Vice.



This vice is unbreakable, compact, rapid in action, and positive in gripping pipe. No. 1 is small enough to carry in the tool bag, and is equally serviceable on bench or post. They are made entirely of wrought steel.

No. 2011. No. 1. For pipes or tubes, 1/8 to 2 in. Price, 20/-

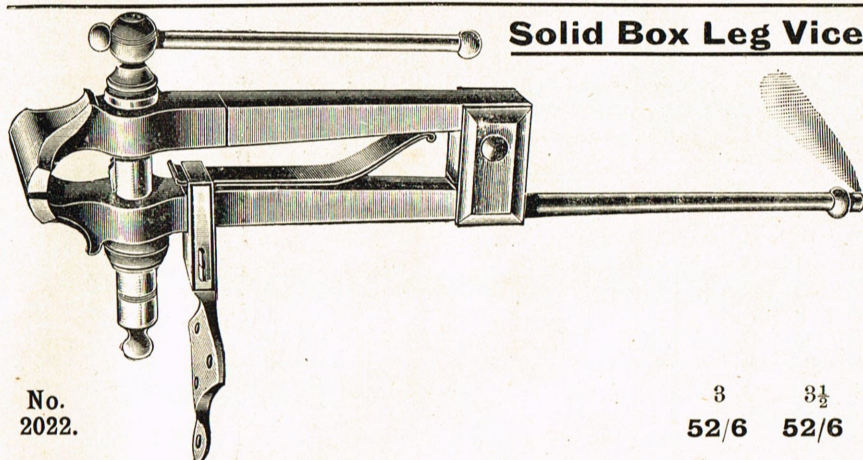
No. 2. For pipes 1/4 to 4 in. Price, 42/6



Nos. 2014 to 2021.

Vices—continued.**Improved Parallel Vice with Steel Jaws.**

No.	No. 00	Width of Jaws.	To Grip.	Weight.	Price.
No. 2014.	No. 00	2 $\frac{1}{4}$ in.	2 in.	5 lb.	12/6 each.
" 2015.	" 0	2 $\frac{3}{8}$ "	2 $\frac{3}{4}$ "	7 "	14/- "
" 2016.	" 1	3 "	3 $\frac{1}{4}$ "	11 "	16/3 "
" 2017.	" 2	3 $\frac{1}{2}$ "	4 "	21 "	21/6 "
" 2018.	" 3	4 "	4 $\frac{3}{4}$ "	31 "	29/- "
" 2019.	" 4	4 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	44 "	39/6 "
" 2020.	" 5	5 "	6 $\frac{1}{4}$ "	65 "	52/6 "
" 2021.	" 6	6 "	7 $\frac{1}{4}$ "	87 "	66/6 "



No. 2022.

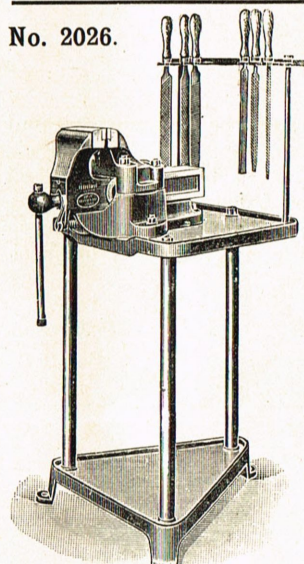
Solid Box Leg Vices.

Leg Vices over 45 lb. in weight are charged at the rate of **130/-** per cwt. Their weights vary somewhat and prices given below are about the average.

No. 2022. Blacksmiths' Staple Leg Vices, best quality, with Solid Box and Best Steeled Jaws.

3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6 in. Jaws.
52/6	52/6	52/6	65/-	97/6	130/- each.

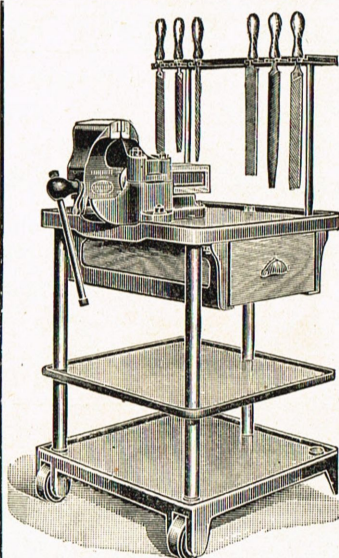
No. 2026.

**Portable Vice Stand.**

This Stand is intended for use in confined spaces, among Machines, Lathes, etc. Top of Table, 18 in. $\times$ 19 in. Height of Table, 30 in. Weight, 3 qr. 14 lb. A Rack for holding 8 Files and a Tray for holding small articles is fitted. The base serves as a shelf.

Price, F.O.R., **£2 17 6**
Vice extra.

Vice No. 2012, size No. 6, is a very useful Vice for this Stand.

**Patent "Perfect" Portable Vice Stand No. 2, Three-decker.**

No. 2027. Fitted with File Rack, Tray and Drawer, Table, 24 in. $\times$ 24 in.

Price, F.O.R., with
Drawer, **£7 10 0**
Vice extra.

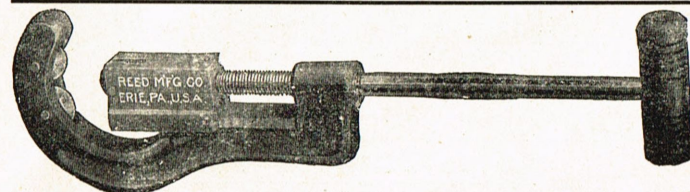
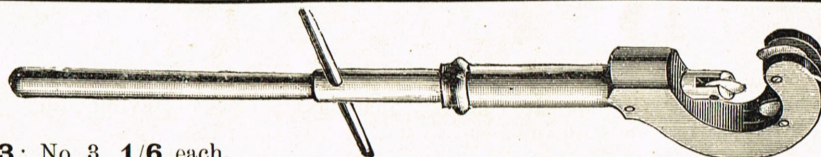
No. 2031. Three-wheel Tube Cutter.

No. 1. To cut tubes $\frac{1}{4}$ to 1 in., **22/-** each.

" 2. Ditto 1 " 2 " **28/6** "

" 3. Ditto 2 " 3 " **42/6** "

Extra Wheels for Ditto, No. 1, **1/-**; No. 2, **1/3**; No. 3, **1/6** each.

**No. 2032. Barnes' Pattern Three-wheel Pipe Cutter.**

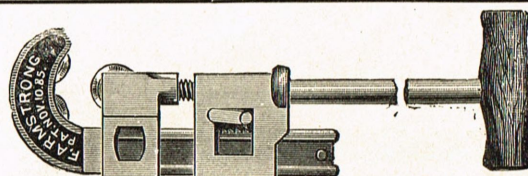
No. 1. To cut tubes from $\frac{1}{8}$ to 1 in. ... **15/6** each.

" 2. " " " $\frac{1}{2}$ " 2 " ... **21/-** "

" 3. " " " $1\frac{1}{2}$ " 3 " ... **35/-** "

" 4. " " " $2\frac{1}{2}$ " 4 " ... **65/-** "

Cutter Wheels for ditto, Nos. 1, **1/-**; 2, **1/3**; 3, **1/6**; 4, **2/-**

**No. 2033. Armstrong's Pattern Adjustable Three-wheel Pipe Cutter.**

No. 1. To cut tubes from $\frac{1}{8}$ to $1\frac{1}{4}$ in. ... **20/-** each.

" 2. " " " $\frac{1}{2}$ " $2\frac{1}{2}$ " ... **26/6** "

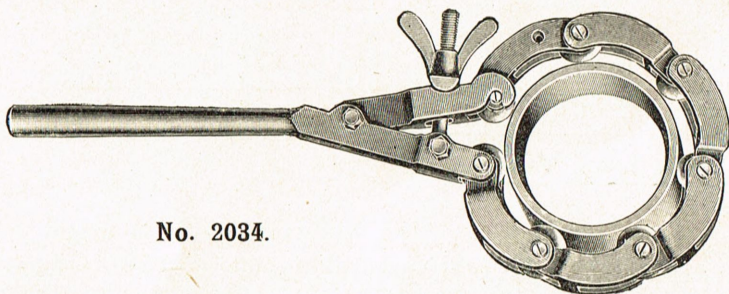
" 3. " " " $1\frac{1}{2}$ " 4 " ... **70/-** "

Cutter Wheels, Nos. 1, **1/1**; 2, **2/2**; 3, **3/3** each.

W. Jones's Pattern Pipe Cutter.

No. 2034. A useful labour-saving Tool, of great service to Gas and Water Companies, Engineers, and Plumbers, who occasionally or frequently fix cast iron pipes for any purpose. It has the following Special Advantages:

It is suitable for rain water, hot water, or steam pipes. It can be altered in a few seconds by adding one link and wheel for each size. It can be used in confined spaces, such as channels, etc.

**No. 2034.****INSTRUCTIONS FOR USING.**

1. Pass the Links round the Pipe, and secure with adjusting screw.

2. Move Lever backwards and forwards, and see that the Wheels form an endless track, and not a worm or screw.

3. Tighten the Adjusting Screw, and work Lever alternately, until Pipe comes off.

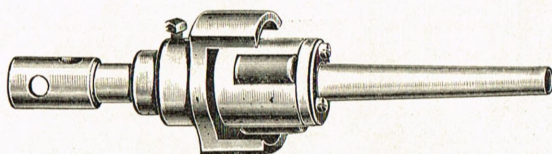
4. Oil the Track in which the Wheels run, and also the Steel Pins upon which the Wheels revolve.

No. 2034.			To Cut Pipes.			No. of Wheels.			Price.		
									£	s.	d.
2 to 3 in.	...	...				5			3	0	0
2 „ 4 „	...	...				6			3	15	0
2 „ 5 „	...	...				7			4	8	6
2 „ 6 „	...	...				8			5	2	6
2 „ 7 „	...	...				9			5	16	6
2 „ 8 „	...	...				10			6	10	0
Extra Wheels						2/9 each.					

No. 2035.			To Cut Pipes.			No. of Wheels.			Price.		
									£	s.	d.
5 to 6 in.	...	...				5			4	12	6
5 „ 7 „	...	...				6			5	10	0
5 „ 8 „	...	...				7			6	6	0
5 „ 10 „	...	...				8			7	2	6
5 „ 11 „	...	...				9			8	0	0
5 „ 13 „	...	...				10			8	16	0
Extra Wheels						4/3 each.					

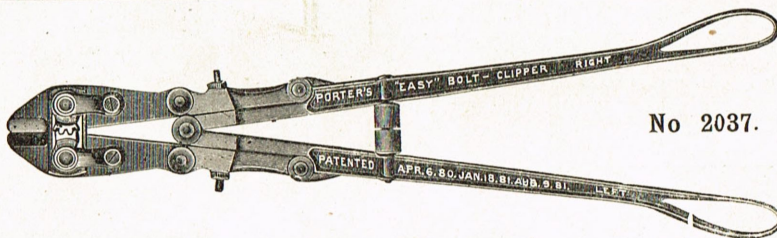
Dudgeon's Pattern Roller Tube Expanders.

With Spare Rollers and Tommie to each.

**No. 2036.**

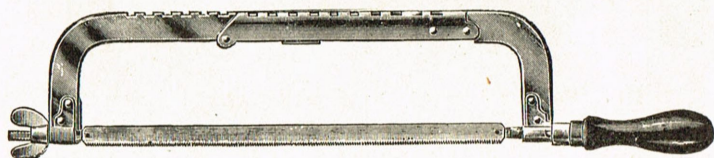
By means of these Expanders the tubes can be expanded without striking a blow on them, thus rendering them far less liable to crack. Leaky ones can be tightened, with steam on the boiler, with perfect safety. One Expander will answer for any thickness of tube sheet, by simply shifting the position of the outside ring A, thus avoiding the necessity of an Expander for each different thickness of sheet.

Diameter, external	...	...	...	1	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2 in.
Prices	...	...	...	17/6	17/6	17/6	17/6	21/-	22/6	24/-	25/6 each.
Diameter, external	...	...	...	...	2 1/8	2 1/4	2 1/2	2 3/4	3	3 1/2	4 in.
Prices	...	...	...	...	28/6	30/-	34/-	40/-	45/-	52/-	75/- each.

The "Invicta" Bolt Croppers.**No 2037.**

These Bolt Croppers are the only open shear Croppers having sufficient adjustment to take up the wear of the joints and the cutting edges during years of use.

No. 0.	For 5/16 in. Bolts,	18 in. long;	weight, 3 lb.	Price, 21/- each.	Extra Jaws, 7/6 per pair.
1.	3/8 "	24 "	4 1/2 "	27/6 "	10/6 "
2.	1/2 "	30 "	7 1/2 "	39/- "	13/6 "
3.	5/8 "	36 "	11 1/2 "	50/- "	17/- "

**Special Line Nickel Plated Adjustable Steel Hack Saw Frame.**

No. 2042. Taking Blades from 8 in. to 12 in., 2/9 ea.

Hack Saw Frames.

Nos. 20, 17 and 18. New Pattern with stiff heavy back, Polished and Nickel Plated, with Cocobola Handles.

No. 2045. No. 20. Takes 8 in. and 9 in. blades. Frame, $1\frac{3}{8} \times \frac{3}{16}$ in. Price, **8/-**

No. 2046. No. 17. Takes 9 in. and 10 in. Blades. Frame, $1 \times \frac{1}{4}$ in. Price, **11/-**

No. 2047. No. 18. Takes 11 in. and 12 in. Blades. Frame, $1 \times \frac{1}{4}$ in. Price, **11/6**

No. 2049.

This Frame, unlike our others, is not Nickel Plated. It is well made, with our improved adjustable back, and will take in 8, 9, 10, 11, and 12 in. saws, which may be set to cut in either one of four directions, and tightened by simply turning the Handle.

Price, with one Saw, **4/6** each.

No. 2050.

No. 10. We offer this as the best Extension Frame in the market. It is light and quickly adjusted, having strength in the middle, where strength is needed. It is made of tempered Steel, Polished, and Nickel Plated. The Handles are Cocobola wood, highly finished. It carries blades 6, 7, 8, 9, 10, 11, and 12 in.

long, and is marked for the different lengths. Price, **10/9** each.

Special Deep Hack Saw Frame for Cutting Rails, Girders, etc.

No. 2052.

Frame Nickel Plated with Beech Handle. Takes 12 in Blades. Depth from Frame to Teeth of Saw, $10\frac{1}{4}$ in.

Price, **12/6** each.

"Invicta" Bench Hack Saw.

No. 2055.

A Bench Hack Saw is a device for which there has long been a place in repair shops, stores, and small factories. It is fitted with a swivel vice which can be set to saw at an angle. This point alone is a valuable addition to the usefulness of the machine, as the ability to saw on a mitre will often save the operator much time which would otherwise be spent in filing. The machine is made entirely of iron and steel, is carefully constructed, and thoroughly practical in its working.

One 9 in. Blade is furnished with each machine, which should be strained well in the frame when in use. It is so constructed that 8 in. Blades can be used when desired.

Price, **44/-** each.

"STAR," "ENOX," OR "STARRETT" HACK SAW BLADES.

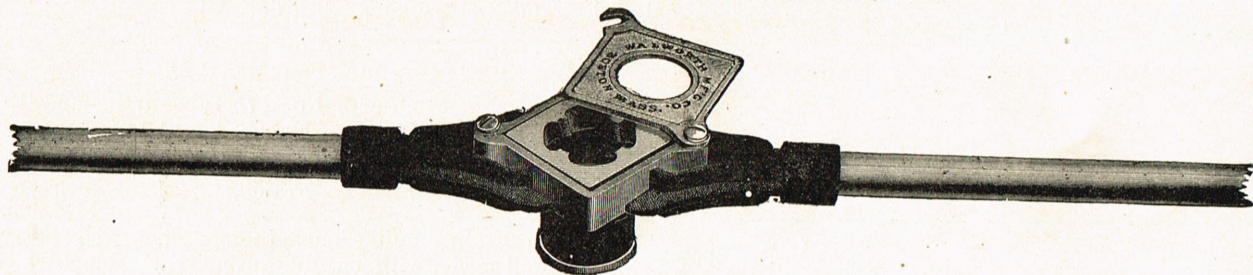
No. 2058.	Length of Blades	...	6	7	8	9	10	11	12 in.
	Prices*	...	3/-	3/3	3/4	3/9	4/3	4/8	5/- per doz.

The Blades in the above list are standard goods with 14 teeth to the inch. The 8, 9, 10, 11, and 12 in. Blades are also made with 23 teeth to the inch, for cutting tubing, thin sheets of metal, and brass work, the prices of each kind being the same. Both kinds have a good set. In filling orders we shall always put in the coarse Blades unless the fine ones are particularly named. Please state which make you prefer—"Star," "Enox," or "Starrett."

No. 2058.

With 14 or 23 points.
See note following.



Genuine Walworth Patent Solid Die Stocks.No. 2062. Walworth Patent Die Stock, No. 0, 1, and $1\frac{1}{2}$.

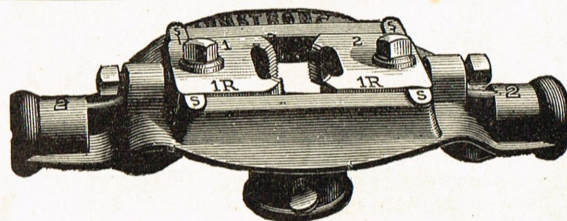
For Screwing Iron Gas Tubes.

2062 Number of Stock.	Full Length of Stock.	To Screw.	Price.	2062 Number of Stock.	Full Length of Stock.	To Screw.	Price.
			£ s. d.				£ s. d.
No. 0.	29 in.	$\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}$ in.	1 17 6	No. $1\frac{1}{2}$	43 in.	$\frac{3}{4}, 1, 1\frac{1}{4}$ in.	2 8 0
„ 0A	29 „	$\frac{1}{4}, \frac{3}{8}, \frac{1}{2}$ „	1 12 6	„ $1\frac{1}{2}$ A	43 „	$\frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{4}$ „	3 0 0
„ 0B	29 „	$\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}$ „	1 17 6	„ $1\frac{1}{2}$ B	43 „	$\frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}$ „	3 9 6
„ 0C	29 „	$\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}$ „	2 5 6	„ $1\frac{1}{2}$ C	43 „	$\frac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}$ „	3 0 0
„ 1	36 „	$\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}, 1$ „	2 13 6	„ $1\frac{1}{2}$ D	43 „	$1, 1\frac{1}{4}, 1\frac{1}{2}$ „	2 8 0
„ 1A	36 „	$\frac{1}{2}, \frac{3}{4}, 1$ „	2 0 0	„ $1\frac{1}{2}$ D	43 „	$1, 1\frac{1}{4}, 1\frac{1}{2}$ „ *	2 16 0
„ 1B	36 „	$\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}, 1$ „	3 0 0	„ 2	51 „	$1\frac{1}{4}, 1\frac{1}{2}, 2$ „ *	3 12 0

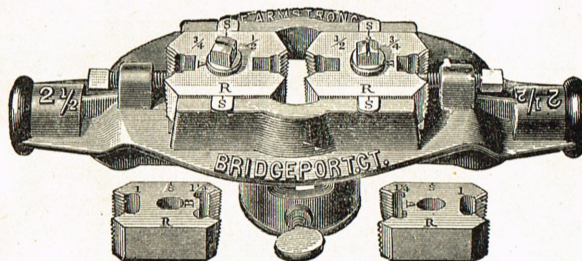
* These last two Sets have Patent Leader Screws.

Armstrong Patent Adjustable Stocks and Dies for Pipe.

No. 1. In Case.

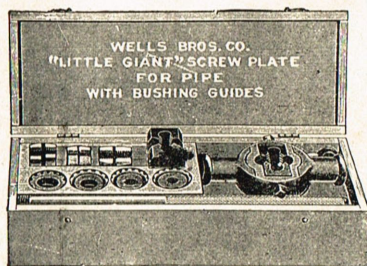


No. 2 Stock.

No. $2\frac{1}{2}$ Stock.

No. of Stock.	To Screw.	Per Set, including Stock, Dies, and Guides, com- plete in Box without Taps.	Extra Dies, per pair.	Extra Bushings, each.
No. 2064. 1	$\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}$ in.	40/-	7/-	$\frac{1}{4}$
„ 2065. 2	$\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}, 1$ in.	52/6	8/6	$\frac{1}{9}$
„ 2066. $2\frac{1}{2}$	$\frac{1}{2}, \frac{3}{4}, 1, 1\frac{1}{4}$ in.	61/6	15/-	$\frac{2}{9}$
„ 2067. 3	$1\frac{1}{4}, 1\frac{1}{2}, 2$ in.	79/6	19/6	$\frac{3}{6}$
„ 2068. 3A	$1, 1\frac{1}{4}, 1\frac{1}{2}, 2$ in.	92/6	19/6	$\frac{3}{6}$

**"Little Giant" Stocks and Dies for Iron Gas Thread,
with Improved Bushing Guides.**



No. 2072. In Semi-finished Cases.

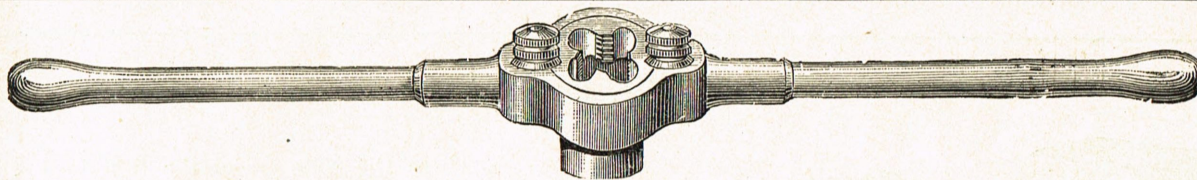
Size...	0	1B	1A	1½	2
Length of Stock	26	36	36	41	52 in.
Cutting	1/8, 1/4, 3/8, 1/2	1/2, 3/4, 1	1/4, 3/8, 1/2, 3/4, 1	1/2, 3/4, 1, 1 1/4	1 1/4, 1 1/2, 2 in.
Price, No. 2072.	40/-	40/-	55/-	62/6	80/-
Extra Dies...	7/-	9/-	9/-	16/-	20/-
Extra Bushings	1/4	1/9	1/9	3/-	3/6

These can also be supplied in single sizes—Stock, Die and Guide complete.

No. 2074. Single Stocks complete

1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2 in.
13/6	13/6	17/6	19/6	22/6	22/6	29/6	37/6	47/6

Solid Die Stock. Made to Screw up to 3 in. at once going over.



No. 2075.

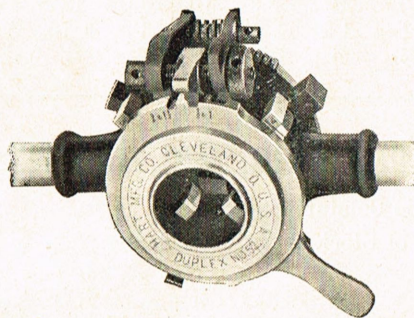
No. 2075. Best Quality English-made Solid Die Stocks, fitted with Guides and Taper and Plug Taps to each size. A perfect screw can be cut on Gas Tube by this Tool at once going down, thereby effecting a great saving of time and labour.

No.	To Cut.	With Taper and Plug Taps.			Without Taps.			No.	To Cut.	With Taper and Plug Taps.			Without Taps.		
		£	s.	d.	£	s.	d.			£	s.	d.	£	s.	d.
1A.	1/8, 1/4, 3/8 in.	2	6	6	1	15	0	9F.	1, 1 1/4, 1 1/2 in.	10	0	0	6	19	6
2B.	1/4, 3/8, 1/2 in.	3	2	0	2	8	6	10F.	3/4, 1, 1 1/4, 1 1/2 in.	11	15	0	8	6	0
3C.	3/8, 1/2, 3/4 in.	4	3	0	3	4	6	13G.	1 1/2, 1 3/4, 2 in.	14	13	6	8	10	0
4C.	1/4, 3/8, 1/2, 3/4 in.	4	17	6	3	15	0	14G.	1, 1 1/4, 1 1/2, 2 in.	16	0	0	10	5	0
5D.	1/2, 3/4, 1 in.	5	8	0	4	1	6	16J.	1 1/2, 2, 2 1/2 in.	19	15	0	11	0	0
6D.	1/4, 3/8, 1/2, 3/4, 1 in.	7	3	6	5	9	0	17J.	2, 2 1/2, 2 3/4 in.	21	18	6	11	0	0
7E.	3/4, 1, 1 1/4 in.	7	9	6	5	9	0	18K.	2 1/2, 3 in.	22	0	0	10	10	0
8E.	1/2, 3/4, 1, 1 1/4 in.	8	15	0	6	9	0	19K.	2, 2 1/2, 3 in.	27	10	0	13	10	0

Prices of Extra Dies and Guides for above Stocks.

Sizes of Stocks	...	A	B	C	D	E	F	G	J	K
Extra Dies	...	5/3	6/6	7/6	10/6	15/6	20/-	26/-	36/-	45/-
Extra Guides	...	2/-	2/9	3/-	4/-	5/6	7/6	10/-	12/-	16/-

The New Duplex Die Stocks.



For Pipe. No. 2079.

No. 2079. The new features in these New Duplex Die-stocks are the means for setting the dies to size, for holding them in position, and releasing them at the end of a cut. The setting is done with great accuracy and by simply using the hand. The holding does not depend on any friction, clamps, screws, or nuts, but on a positive lock. The releasing is accomplished instantly, and avoids turning back over threads. The mechanism for adjusting the guide jaws is self-locking, and its adjustment cannot be accidentally disturbed.

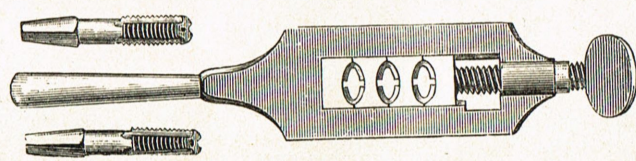
No.	For Threading Pipe.	Per Set without Cut-off.	Per Set, with Cut-off.	Sets of Dies in Stock.	Extra Dies, per Set of 4 pieces.
41	1/4, 3/8, 1/2, 3/4 in.	75/-	95/-	2	18/-
41 1/2	1/8, 1/4, 3/8, 1/2, 3/4 in.	90/-	110/-	3	18/-
42	1/2, 3/4, 1, 1 1/4 in.	98/-	118/-	2	21/-
42 1/2	1/4, 3/8, 1/2, 3/4, 1, 1 1/4 in.	108/-	128/-	3	21/-
43	1, 1 1/4, 1 1/2, 2 in.	140/-	160/-	2	24/-
43 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 in.	160/-	183/-	3	24/-
44	1 1/2, 2, 2 1/2, 3 in.	250/-	290/-	2	42/-
45	2 1/2, 3, 3 1/2, 4 in.	350/-	380/-	2	47/6

CHARLES NURSE & CO., LTD.

C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

Gas Fitter's Stocks and Dies for Brass or Copper Tubes.

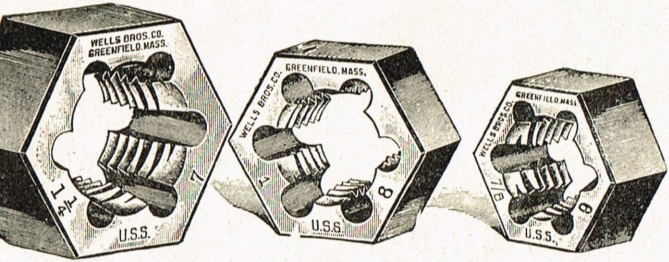
No. 2077.



With Taper and Plug Taps to each size.

										Best English			Ditto, with Tube Cutter in Stock, No. 2076.		
										£	s.	d.	£	s.	d.
ing	1/4 in.	Iron and 3/8, 1/2 in.	Brass	...	...	...	...	...	...	1	11	6	2	7	6
	1/8, 1/4, 3/8, 1/2 in.	Brass	...	...	...	...	...	...	...	1	16	0	...	...	...
	1/4, 3/8, 1/2 in.	...	...	...	...	...	...	...	...	1	11	6	2	5	6
	3/8, 1/2, 5/8 in.	...	...	...	...	...	...	...	...	1	14	6	2	7	6
	1/4, 3/8, 1/2, 5/8 in.	...	...	...	...	...	...	...	...	2	0	0	2	12	6
	1/4, 3/8, 1/2, 5/8, 3/4 in.	...	...	...	...	...	...	...	...	2	13	6	3	3	0

Die Nuts.



These Die Nuts are of the Best Cast Steel, and are to Standard Whitworth Gauge. They are not intended to take the place of Stocks and Dies, but in confined places particularly, and in others can be used more advantageously than those for sizing threads, that are burred or otherwise damaged.

No. 2080. Whitworth Threads.																
Diameter Screw	...	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.
Threads, per in.	...	20	18	16	14	12	11	10	9	8	7	7	6	6	5	$4\frac{1}{2}$
Weight, each	...	3/9	3/9	3/9	4/6	5/3	6/-	7/6	9/-	11/-	12/9	15/-	18/-	21/-	28/-	33/6
No. 2081. Whitworth Gas Threads.																
Inside Diameter of pipe	...	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{3}{4}$	2 in.
Outside diameter of thread	...	.382	.518	.656	.826	1.04	1.309	1.650	1.882	2.160	2.347	2.540	2.762	2.999	3.250	3.500
Threads, per in.	...	28	19	19	14	14	11	11	11	11	11	11	11	11	11	11
Weight, each, Without Guide	...	4/6	5/-	5/3	5/6	7/6	10/-	15/-	19/6	25/6	25/6	25/6	25/6	25/6	25/6	25/6
No. 2081½. Ditto With Guide		6/6	7/-	7/3	8/-	10/6	13/9	20/-	27/-	35/6	35/6	35/6	35/6	35/6	35/6	35/6
No. 2082. Metric Pitches. S. International Threads.																
Diameter Screw	...	6	7	8	9	10	11	12	14	16	18	20	22	24	27	m/m.
Threads, per thread	...	1.0	1.0	1.25	1.25	1.5	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.5	4.0
Weight, each	...	4/-	5/-	5/-	5/-	5/-	6/-	6/-	6/-	6/-	8/6	8/6	8/6	12/-	12/-	12/-

Conduit Stocks and Dies for Electrical Conduit Pipes.

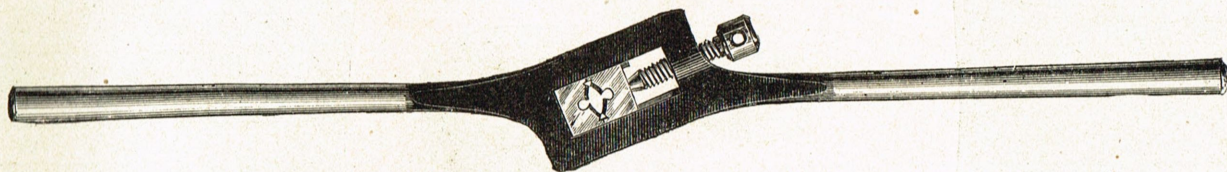
No. 2062½	Walworth Pattern, solid die Conduit Stocks.									
Nos.	C.O.	Length of Stock	29 in.	To Screw	1½, 5⁄8, ¾, 7⁄8 in.	Price,	52/6			
„	C.O.A.	„	27 „	„	5⁄8, ¾, 7⁄8 in.	„	43/6			
„	C.O.B.	„	„ „	„	¾, 7⁄8, 1 „	„	43/6			
„	C.O.C.	„	„ „	„	1½, 5⁄8, ¾, 7⁄8, 1 in.	„	62/6			
„	C.I.	„	37 „	„	5⁄8, ¾, 7⁄8, 1, 1¼ in.	„	82/6			
„	C.I.A.	„	„ „	„	¾, 7⁄8, 1, 1¼ in.	„	70/-			
No. 2075½	Solid Conduit Stocks and Dies for Electrical Conduit Pipes.									
B.	Conduit Cutting	1½, 5⁄8, ¾ in.				Price,	55/-			
D.	„	7⁄8, 1, 1¼ „				„	80/-			
F.	„	1½, 2 in.				„	120/-			

Conduit Taps for either of above.

1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2 in.
2/3	2/9	3/3	4/-	4/9	7/-	10/-	17/6

Stocks and Dies for Engineers' Use.

Best Quality. English Made.
WHITWORTH'S STANDARD THREAD.



No. 2085.

To Screw.	With Taper and Plug Tap to each size.	To Screw.	With Taper and Plug Tap to each size.	To Screw.	With Taper and Plug Tap to each size.
	£ s. d.		£ s. d.		£ s. d.
$\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$ in. ...	1 12 6	$\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. ...	2 14 0	$\frac{3}{4}$, 1, $1\frac{1}{4}$ in. ...	5 16 0
$\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ in. ...	1 13 6	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ in. ...	2 9 6	1, $1\frac{1}{8}$, $1\frac{1}{4}$ in. ...	6 2 6
$\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ in. ...	2 6 6	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in. ...	3 0 0	1, $1\frac{1}{4}$, $1\frac{1}{2}$ in. ...	8 0 0
$\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ in. ...	1 19 6	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in. ...	3 10 6	$1\frac{1}{4}$, $1\frac{1}{2}$, 2 in. ...	13 17 6
$\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. ...	2 0 0	$\frac{3}{4}$, $\frac{7}{8}$, 1 in. ...	4 5 6		

Stocks and Dies in Cases.

English Made. Fully Warranted.

With Separate Divisions for Each Article.

No. 2086.

Other Ranges of Sizes made to Order.

No. 2086. Range of Sizes					With Taper and Plug Tap to each size, and Tap Wrenches.
To Screw					Deal Case.
No.	1 Set,				£ s. d.
1	Set, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ — $\frac{3}{4}$, $\frac{7}{8}$, 1 in. ...	...	...	... Fitted into 1 Case	9 10 0
2	Set, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ — $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in. ...	...	...	... 1 "	9 15 0
3	Set, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ — $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in. ...	...	...	... 1 "	11 0 0
4	Set, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ — $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$ in. ...	...	...	... 1 "	15 0 0
5	Set, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ — $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$ in. ...	...	...	... 1 "	15 10 0
6	Set, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ — $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ — $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$ in. ...	...	...	... 1 "	17 0 0
7	Set, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ — $\frac{3}{4}$, $\frac{7}{8}$, 1— $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ in. ...	...	...	... 1 "	23 0 0
8	Set, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ — $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1— $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ in. ...	...	...	... 1 "	23 5 0
9	Set, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, — $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1— $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ in. ...	...	...	... 1 "	24 0 0
10	Set, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ — $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$ — $1\frac{3}{8}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2 in. ...	...	...	... 2 "	39 0 0

C. Nurse & Co.'s Best Warranted English-made**Cycle Makers' Stocks, Taps, and Dies.****No. 2098.**

Complete Sets fitted into Polished Cases with Lock and Key With Taper and Plug Taps to each size.
 Set No. 1. Price, **£25 10 0** Comprises 2 Stocks, 2 Tap Wrenches, 8 pairs of Dies, and 16 Taps for screwing.

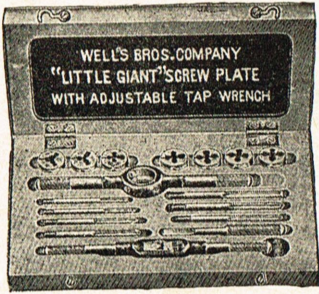
Threads per inch	...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{9}{16}$ in.
...	...	32	25 and 30	26	20 and 26	20 right	20 left hand.

Set No. 2. Price, **£11 0 0**. Comprises 2 Stocks, 2 Tap Wrenches, 24 pairs of Dies, and 49 Taps (including 1 bracket Tap, $1\frac{3}{8}$ in. $\times$ 24 threads per in.) for screwing.

Threads per inch	...	...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$ in.
...	...	...	24 and 32	20, 25, 26, 30	18, 24, 26, 30	16, 20, 24, 26
...	...	...	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{9}{16}$ in.
...	...	...	14, 19, 20, 24	12, 19, 20, 24	20 right	20 left hand.

Split Die Screw Plates for Bolts.

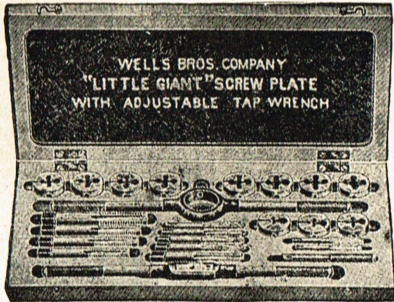
WHITWORTH STANDARD.



No. D.



No. F.



In Neat Cases, with Plush-lined Tops.

With Stocks, Dies, Taper Taps, and Tap Wrenches.

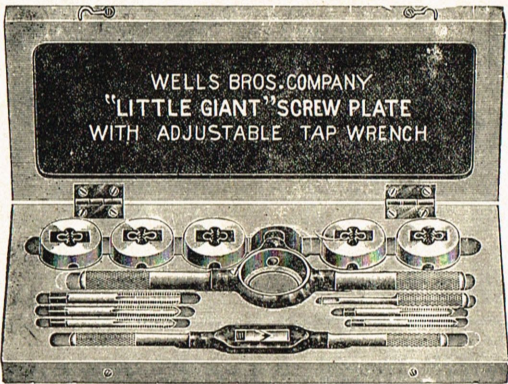
Assortment No.	Size Die. In.	Cutting, Inch.	Stock. In.	Tap Wrench. No.	Price, per Set.
DD 5	$\frac{13}{16}$	$\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	D— $6\frac{1}{4}$	340	36/-
DD 6	"	$\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{9}{32}$ in.	"	340	42/-
DD 7	"	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	"	340	46/6
F 5	1	$\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ in.	F—9	4	56/-
F 6	"	$\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ in.	"	4	62/6
D 04	$\frac{13}{16}$	Cutting, B.A. Threads, Nos. 0, 1, 2, 3, 4	D— $6\frac{1}{4}$	340	36/-
D 510	"	" " " Nos. 5, 6, 7, 8, 9, 10	"	340	42/-
D 010	"	" " " Nos. 0 to 10	"	340	68/6

Extra Dies of any size to fit D, $\frac{3}{6}$ each ; F, $\frac{4}{3}$ each.

"Little Giant" Screw Plates—Bolt Sizes.

Assortment No. A 1.

Assortment No. 1.



WHITWORTH STANDARD.

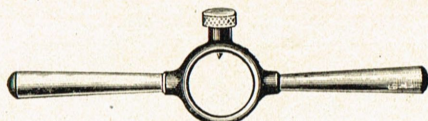
INTERNATIONAL STANDARD.

In Fine Cases, With Taper Taps, Stocks, Dies, Collets and Tap Wrenches.



Assortment No.	Cutting Sizes.	Stocks, long. Inches.	Collets. Inches.	Tap Wrenches. No.	Price, per Set.
A 1	$\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	$7\frac{1}{2}$	$1\frac{1}{4}$	0	58/-
A $1\frac{1}{2}$	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	$7\frac{1}{2}$	$1\frac{1}{4}$	0	72/6
A $2\frac{1}{2}$	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	$7\frac{1}{2}$	$1\frac{1}{4}$	0	98/-
A 10	$\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{9}{32}$ in.	$7\frac{1}{2}$ and $13\frac{1}{2}$	$1\frac{1}{4}$ and $1\frac{5}{8}$	4	91/6
1	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	$14\frac{1}{2}$	2	5	92/6
2	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	23	$2\frac{3}{4}$	6	113/6
3	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	26	$2\frac{3}{4}$	7	131/6
4	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	26	$2\frac{3}{4}$	7	146/-
5	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	23	$2\frac{3}{4}$	6	138/-
6	$\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{9}{32}$ in.	26	$2\frac{3}{4}$	7	175/-
7	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	26	$2\frac{3}{4}$	5 and 7	210/-
8	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	$14\frac{1}{2}$ and 26	2 and $2\frac{3}{4}$	6	150/-
9	$\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ in.	$14\frac{1}{2}$ and 29	2 and $2\frac{3}{4}$	5 and 7	217/6
412	3, 4, 5, 6, 7, 8, 9, 10 m/m, International Standard	$7\frac{1}{2}$ and $13\frac{1}{2}$	$1\frac{5}{8}$	4	134/6
47	6, 8, 10, 12, 14, 16, 18, 20, 24 m/m	26	$2\frac{3}{4}$	7	210/-

Stocks for Round Dies.



No. 2125.

No.	Length.	Takes Dies.	Price.
No. 2125A.	6 in.	$\frac{13}{16}$ in.	3/9
" 2125B.	9 "	1 "	6/-
" 2125C.	14 "	$1\frac{5}{16}$ "	8/-
" 2125E.	14 "	$1\frac{1}{2}$ "	9/6
" 2125F.	23 "	$1\frac{3}{4}$ "	11/-
" 2125G.	$14\frac{1}{2}$ "	2 "	12/6
" 2125H.	23 "	$2\frac{1}{4}$ "	14/3

Circular Dies to fit above.



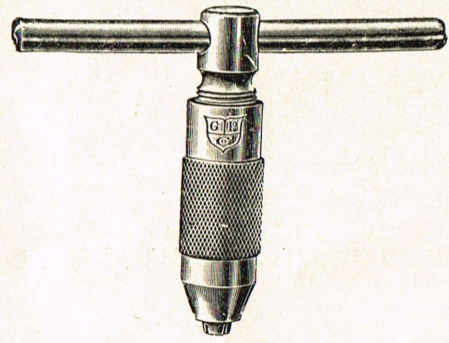
$\frac{13}{16}$ in. diameter,	3/6		
1 "	4/3		
$1\frac{5}{16}$ "	5/6		
$1\frac{1}{2}$ "	5/6		
$1\frac{3}{4}$ "	7/-	...	$\frac{9}{16}$ and $\frac{5}{8}$ in., 8/4
2 "	7/-	...	" 8/4
$2\frac{1}{4}$ "	8/4	...	" 9/9
			$\frac{11}{16}$ and $\frac{3}{4}$ in., 9/9
			" 11/-
			$\frac{13}{16}$ and $\frac{7}{8}$ in., 12/6; 1 in., 14/-

British Association Thread Taps.



No. 2140. Best Fluted Taps in either Taper, Second, or Plug, Nos. 0 to 10, 1/5 each; Nos. 11 and 12, 1/9 each. These Taps are guaranteed accurate, and are fluted on all sides up to No. 12.

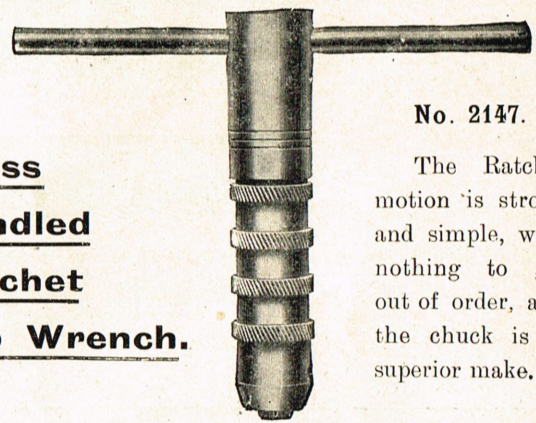
Adjustable Tool or Tap Holder.



No. 2146.

No. 1. For Taps up to $\frac{7}{32}$ in. 3/- each.
" 2. " " $\frac{3}{8}$ " 3/9 "

Cross
Handled
Ratchet
Tap Wrench.



No. 2147.

The Ratchet motion is strong and simple, with nothing to get out of order, and the chuck is of superior make.

No. 1 holds taps to $\frac{3}{16}$ in. Price, 7/6 each.
" 2 " " $\frac{5}{16}$ " " 7/6 "

Adjustable Tap Wrenches.



No. 2149. No. 174.

All steel, nicely finished, and it will hold any tool that will go into its $\frac{1}{4}$ in. hole, taps, reamers, drills, and rods, round, square, oval, or any other shape. 3 in. long.
Price, 2/9 each.



No. 2150. No. 91.

All steel, beautifully finished.
No. 91A. $5\frac{3}{4}$ in. long, for taps $\frac{5}{16}$ to $\frac{1}{2}$ in. 4/6 each.
" 91B. 9 " " " $\frac{3}{16}$ to $\frac{1}{2}$ " 8/6 "

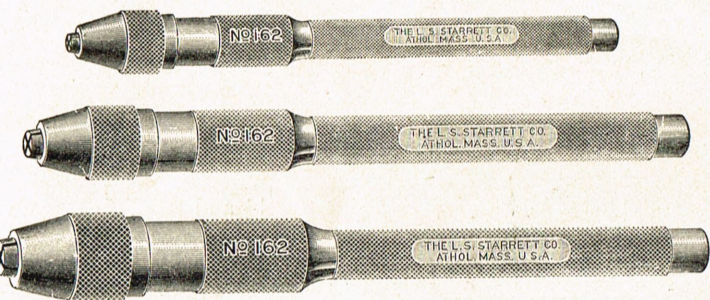
Little Giant Tap Wrenches.



No. 2156. These Wrenches are drop forgings and very strong. The Jaws are all of best tool steel. Nicely mottled with knurled handles.

No.	Length.	For Taps.	Price.	No.	Length.	For Taps.	Price.
00	5 in.	$\frac{1}{32}$ to $\frac{3}{16}$ in.	8/-	7	20 in.	$\frac{3}{8}$ to 1 in.	22/-
0	7 "	$\frac{1}{16}$ " $\frac{1}{4}$ "	9/6	7 $\frac{1}{2}$	30 "	$\frac{3}{8}$ " $\frac{1}{4}$ "	41/-
4	9 "	$\frac{1}{16}$ " $\frac{3}{8}$ "	11/-	8	42 "	$\frac{3}{4}$ " $\frac{1}{2}$ "	50/-
5	10 $\frac{1}{2}$ "	$\frac{1}{16}$ " $\frac{1}{2}$ "	13/-				
6	15 "	$\frac{1}{4}$ " $\frac{3}{4}$ "	16/-				

Pin Vices.



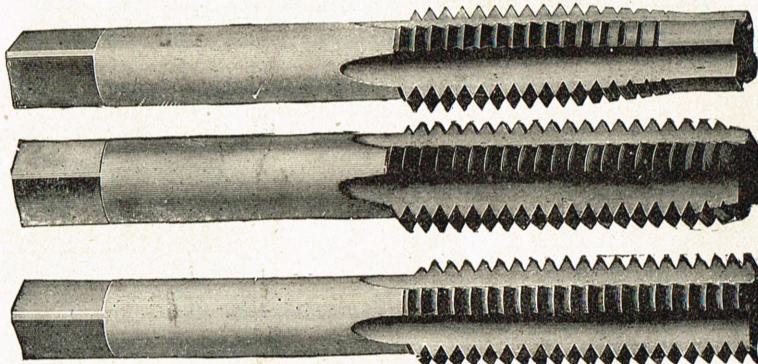
These vices have hardened jaws with chucks so made that they will hold firmly anything inserted in them. The hole extends through full length of the handle. The handle is reduced in size, so that it may be more rapidly rotated between thumb and finger when filing small work. They are convenient handles for holding scribers, small files, taps, etc. Nickel plated.

CAPACITY AND PRICES.

No. 2157.	No. 1.	.0 in. to .040 in.	3/6
	" 2.	.030 " " .062 "	3/6
	" 3.	.050 " " .125 "	3/6
	" 4.	.115 " " .187 "	4/-
		Or Set of 4 Vices	14/-

Best Quality Whitworth Thread Taps.

No. 2158.



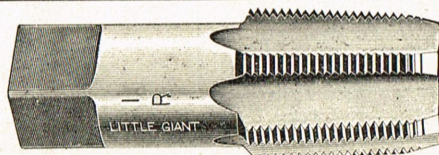
Taper.

Second.

Plug.

Diam. of Tap ...	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$ in.
Threads per in.	60	48	40	32	24	24	20	20	18	16	14	12	12	11 " each.
Price ...	1/3	1/-	1/-	1/-	1/-	1/2	1/6	1/6	1/8	1/10	2/-	2/3	2/9	3/- each.
Diam. of Tap ...	...	...	$\frac{3}{4}$	$\frac{7}{8}$	1	1	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	2 in.
Threads per in.	...	...	10	9	8	7	7	7	6	6	6	5	5	4 $\frac{1}{2}$ each.
Price ...	...	...	4/-	5/6	6/9	9/6	11/-	12/6	14/6	20/-	28/-	28/-	28/-	28/- each.

Taps, for Gas or Steam Tubes.



No. 2159.

Hand Taps, Whitworth, for Gas Barrel. Plug or Taper.

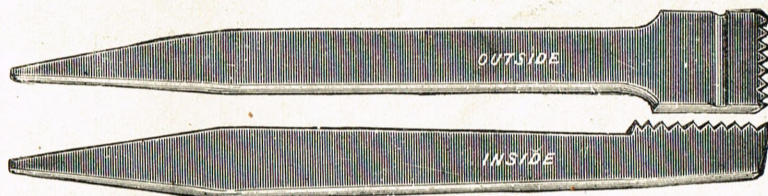
No. 2159. Inside diam. of pipe	...	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	2 in.
Price, Taper or Plug.	...	2/-	2/3	3/-	3/9	5/3	8/-	11/3	14/6	22/6 each.

Brass Gas Taps.

TAPER OR PLUG. 26 THREADS PER INCH.

No. 2163. Size	...	...	...	...	...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
Price	...	...	...	...	...	1/8	1/9	2/-	2/3	2/6 each.

No. 2163.

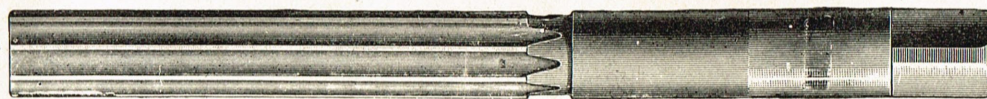
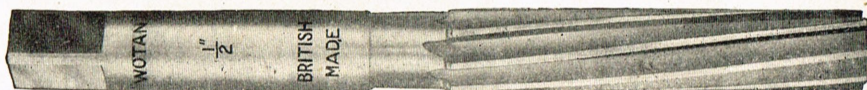
Best Engineers' Screw Tools.

No. 2175.

Number of Threads per inch ...	4½	5	6	7	8	9	10	11	12	14	16	18	20	24	40
Diameter of Thread—Whitworth	2	1¾	1½	1¼	1	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾ in.
Price, each, either inside or outside	1/9	1/9	1/9	1/9	1/9	1/9	1/9	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4

Solid Spiral or Straight Fluted Reamers.

No. 2176. Spiral.

No. 2177. Straight.
Fractions of an Inch Sizes.

These are made from the very best Cast Steel, and are ground accurately to size, being guaranteed to within $\frac{1}{10000}$ in. The Spiral Flute is left-handed, and the Reamer will not seize in the hole. This left flute ensures a smooth polished hole without chatter marks, and many prefer it to the straight type. Either pattern same price. No. 2176 Spiral, or No. 2177 Straight Fluted.

Size ...	3/16	7/32	1/4	9/32	5/16	11/32	3/8	13/32	7/16	15/32	1/2	17/32	9/16	19/32	5/8	21/32	11/16	in.
Length ...	4	4	4½	4¾	5	5	5	5½	5½	5¾	6	6	6½	6½	7	7	7½	"
Length of Flutes	2	2	2½	2¾	2½	2½	2½	2¾	2¾	3	3	3	3¼	3¼	3½	3½	3¾	"
Price ...	3/-	3/3	3/3	3/3	3/6	3/8	4/-	4/6	4/6	5/-	5/6	6/-	6/6	6/6	7/-	7/3	8/-	each.

Size ...	3/32	3/4	25/32	13/16	27/32	7/8	29/32	15/16	31/32	1	1 1/16	1 1/8	1 1/16	1 1/4	1 5/16	1 3/8	1 1/2	in.
Length ...	7½	8	8	8½	8½	9	9	9½	9½	10	10½	11	11½	12	12¾	12¾	14	"
Length of Flutes	3¾	4	4	4¼	4¼	4½	4½	4¾	4¾	5	—	—	—	—	—	—	—	"
Price ...	9/-	9/-	9/6	10/3	11/3	12/-	12/-	13/-	14/-	14/6	17/-	19/6	20/6	24/-	26/6	27/9	32/-	each.

**Bit Stock Taper Reamers, Straight Flutes.**No. 2178. Taper 1 in. to the foot; Diameter at large end of flute is $\frac{1}{16}$ in. larger than the nominal size.

Size ...	...	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	in.
Price ...	...	3/-	3/-	3/3	3/6	3/9	4/-	4/9	5/3	6/-	each.

Best Lancashire 5-sided Taper Broaches.

No. 2180. Taper 1 in 48 or 1/4-in. per foot. Sizes given are gauged at shoulder.

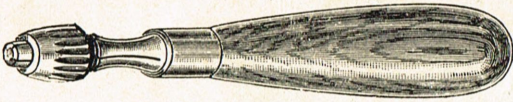
Size	1/32	3/64	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	9/32	5/16	11/32	3/4	in.
Price	-/2½	-/3½	-/3½	-/4½	-/4½	-/6	-/8	-/8½	-/9	-/11	1/-	1/2	1/4	1/6	1/8	1/10	each.

Standard Taper Pin Reamers.

No. 2181. Taper 1/4 in. per foot. These have all the same taper, and each one overlaps conveniently the next size. The diameter of small end is taken 1/4 in. from extreme end of reamer.

No. ...	0	1	2	3	4	5	6	7	8	9	
Diameter small end	·135	·146	·162	·183	·208	·24	·279	·331	·398	·482	in.
Will enter hole ...	9/64	5/32	11/64	3/16	7/32	1/4	9/32	21/64	13/32	31/64	"
Length of flutes	1½	1¾	2	2¼	2½	3	3½	4½	5¼	6	"
Total Length ...	2¼	2½	3	3½	4	4½	5	6	6¾	8	"
Price, each ...	3/3	3/9	4/6	5/-	5/3	5/6	6/6	7/6	9/-	11/-	

Broach Handles.



No. 2183. Rosewood Handles with Steel Chucks.
Small, 1/9; Medium, 2/3; Large, 2/9 each.

Broach Handles.



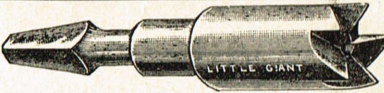
No. 2184. Wood Handle with Steel Chuck.
4 in., -/9; 4 1/2 in., 1/- each.

Countersinks, 82°.

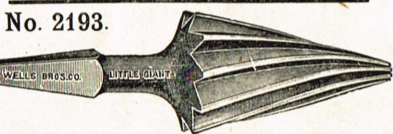


No. 2189. With 1/2 in. machine or brace shanks.
Size of Body 5/8 3/4 in.
No. 2189. 1/2 in. Machine Shank Price, 2/6 3/9 each.
No. 2190. Brace Shank 2/6 3/9 "

Bit Brace Bolt Pointer.



Burring Reamers.



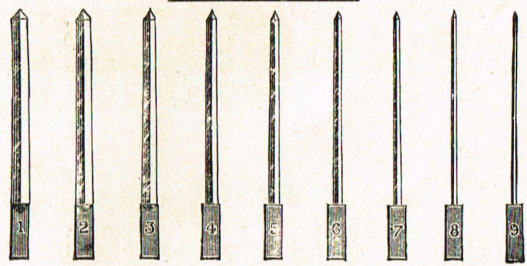
No. 1.
To take Pipe
1/8 to 1/2 in., 5/6
No. 2.
To take Pipe
1/4 to 1 in., 6/6

End Mills.

Best Silver Steel.

Size.	Overall.	Price.	Size.	Overall.	Price.
1/8	1 1/2	1/3	1 1/2	2 1/2	2/3
5/16	1 3/4	1/3	2	2 9/16	2 9
3/8	1 7/8	1/4	2 1/8	3 1/8	3 3
1/2	2	1/6	2 1/2	3 3/4	4/-
5/8	2 1/8	1/8	3	4 1/8	7/6

The Standard Set of 9 English Broaches.



No. 2185. Gradual Taper, graduating 1/16 in. to 3/16 in., with Universal Handle, each set on a card, including handle. 8/6 per Set.

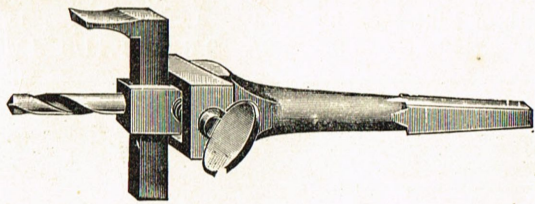
Centre Reamer.



No. 2192. A very handy little tool for machinists. Made from tool steel. Angle 60°.
Size of Shank ... 3/16 1/4 5/16 in.
Size of Cut ... 1/4 3/8 1/2 "
Price ... 1/8 2/- 2/3 each.

No. 2191. A convenient tool; will round over ends of bars to 1/2 in. diameter.
Price ... 4/3 each.

Patent Expansion Drill, for Iron.



No. 2194. For cutting out holes up to 3 in. diameter in boilers, cisterns, etc. Will cut out a hole 1 1/2 in. diameter through 3/16 in. iron in 5 minutes. A most useful tool for plumbers, hot water engineers, sheet metal workers, etc. No. 1. With Brace Shank, as illustrated. Price, 8/6 ea. Extra 1/4 in. Drills, -/10 each. Extra Cutters, 1/9 each.

Patent Straight Lip Increase Twist Drills.

With Straight Shanks. No. 2204.



Diam. in.	Length in.	Price per Drill.	Diam. in.	Length in.	Price, per Drill.	Diam. in.	Length in.	Price per Drill.	Diam. in.	Length in.	Price per Drill.
1/16	2 1/2	-/5	3/16	3 1/2	-/7	5/16	4 1/2	1/1	7/16	5 1/2	2/1
5/64	2 5/8	-/5	1/4	3 3/8	-/7 1/2	3/8	4 5/8	1/2	1 1/8	5 3/4	2/3
3/32	2 3/4	-/5	5/16	3 3/4	-/8	1/2	4 3/4	1/3	1 1/4	5 7/8	2/5
7/64	2 7/8	-/5 1/2	3/8	3 7/8	-/9	3/4	4 7/8	1/4	1 1/2	6	2/9
1/8	3	-/5 1/2	1/2	4	-/10	7/8	5	1/6	1 3/4		2/11
9/64	3 1/8	-/5 1/2	3/4	4 1/8	-/10 1/2	1	5 1/8	1/7			
5/32	3 1/4	-/6	7/8	4 1/4	-/11		5 1/4	1/9			
11/64	3 3/8	-/6	1	4 3/8	1/-		5 3/8	1/11			

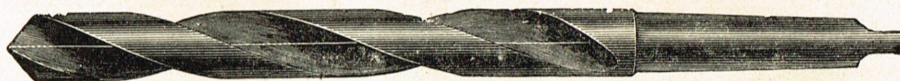
Extra Short Straight Shank Twist Drills.

Diameter	...	1/16	5/64	3/32	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	15/64	1/4
Length	...	1	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Price	...	-/5 1/2	-/5 1/2	-/5 1/2	-/6	-/6	-/6 1/2	-/6 1/2	-/7	-/8	-/8 1/2	-/9 1/2	-/10	-/11

C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

Patent Straight Lip Increase Twist Drills *continued.*

No. 2207.



With Taper Shank. List No. 2207.

If with Straight Shank, Taper Shank Length. List No. 2208.

Diam.	Length.	Price, Each.	Diam.	Length.	Price, Each.	Diam.	Length.	Price, Each.	Diam.	Length.	Price, Each.
in.	in.		in.	in.		in.	in.		in.	in.	
1/8	5 1/8	1/5	2/8	7 1/2	3/5	4/7	9 3/4	6/3	1 1/8	11 1/8	11/9
3/8	5 3/8	1/5	6/4	7 1/2	3/5	6/4	9 3/4	6/3	1 1/16	11 1/4	12/6
1/2	5 5/8	1/7	1 1/2	7 3/4	3/9	4/9	9 7/8	6/7	1 3/32	11 1/2	13/6
3/4	6	1/9	1 3/4	7 3/4	3/9	2 1/2	9 7/8	6/7	1 1/8	11 3/4	14/3
1	6 1/8	1/11	2	8	4/1	3 1/4	10	6/11	1 5/32	11 7/8	15/-
1 1/4	6 1/8	1/11	2 1/4	8	4/1	4 1/4	10	6/11	1 1/16	12	15/9
1 1/2	6 1/4	2/1	2 1/2	8 1/4	4/5	5 1/4	10 1/4	7/6	1 3/32	12 1/8	16/6
1 3/4	6 1/4	2/1	2 3/4	8 1/2	4/5	6 1/4	10 1/4	7/6	1 1/4	12 1/2	17/3
2	6 3/8	2/2	3	8 1/2	4/8	7 1/8	10 1/2	8/2	1 9/32	14 1/8	18/-
2 1/4	6 3/8	2/2	3 1/4	8 1/2	4/8	8	10 1/2	8/2	1 1/16	14 1/4	18/9
2 1/2	6 1/2	2/5	3 1/2	8 3/4	5/-	9	10 5/8	8/10	1 1/8	14 3/8	19/6
2 3/4	6 1/2	2/5	4	8 3/4	5/-	10	10 5/8	8/10	1 3/16	14 1/2	20/3
3	6 3/4	2/6	4 1/4	9	5/4	11	10 3/4	9/6	1 1/2	14 3/4	22/-
3 1/4	7	2/10	4 1/2	9	5/4	12	10 3/4	9/6	1 5/8	14 3/4	23/6
3 1/2	7	2/10	4 3/4	9 1/4	5/8	13	10 7/8	10/3	1 3/4	15	25/6
3 3/4	7 1/4	3/2	5	9 1/4	5/8	14	11	10/3	1 7/8		27/-
4	7 1/4	3/2	5 1/4	9 1/2	5/11	15	11	11/-			
			5 1/2	9 1/2	5/11	16	11	11/-			

Straight Shank Drills in Drill or Pinion Wire Gauge Sizes.

No. 2205.

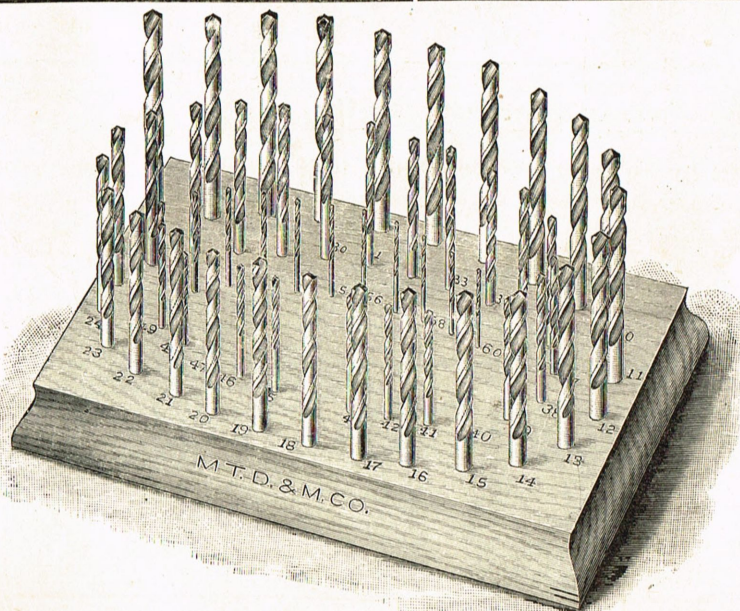
Nos. by Gauge.	Length.	Price, each.	Nos. by Gauge.	Length.	Price, each.
	in.			in.	
1 to 5	4 to 3 1/16	-/8 1/2	31 to 35	2 3/4 to 2 9/16	-/5 1/2
6 „ 10	3 1/16 „ 3 5/8	-/8	36 „ 40	2 9/16 „ 2 3/8	-/5 1/2
11 „ 15	3 9/16 „ 3 7/8	-/7	41 „ 45	2 5/16 „ 2 1/4	-/5 1/2
16 „ 20	3 3/8 „ 3 3/16	-/6 1/2	46 „ 60	2 1/8 „ 1 9/16	-/5
21 „ 25	3 1/16 „ 3	-/6	61 „ 70	1 1/2 „ 1 5/16	-/4 1/2
26 „ 30	2 1/16 „ 2 1/8	-/5 1/2	71 „ 80	1 5/16 „ 3/4	-/4 1/2

Sets of Drills.

Mounted.

No. 2206.

- No. 5. Set of Straight Shank Drills, 1/16 to 1/2 in. by 64ths ... 42/-
- „ 6. Set of Straight Shank Drills, 1/16 to 1/2 in. by 32nds ... 25/-
- „ 8. Set of Steel Wire Drills, Nos. 1 to 60 ... 39/-
- „ 9. Half Set Wire Drills, alternate Nos. 1 to 59 ... 22/-
- „ 10. Jewellers' Set, 36 Drills, No. 30 (1/8 in.) to No. 65 Wire Gauge, mounted in Mahogany Case, with Cap ... 25/-



For Latest Corrected Prices see Preface.

Straight Fluted Drills with Straight Shanks.

No. 2212.



No. 2212.

Diam.	Length.	Price.	Diam.	Length.	Price.	Diam.	Length.	Price.	Diam.	Length.	Price.	Diam.	Length.	Price.	Diam.	Length.	Price.
in.	in.	each.	in.	in.	each.	in.	in.	each.	in.	in.	each.	in.	in.	each.	in.	in.	each.
1/16	2 1/2	-/7 1/2	9/64	3 1/8	-/9	7/32	3 3/4	1/1	19/64	4 3/8	1/7	3/8	5	2/4	29/64	5 5/8	3/8
5/64	2 5/8	-/8	5/32	3 1/4	-/9	15/64	3 7/8	1/2	6/16	4 1/2	1/9	25/64	5 1/8	2/7	6/4	5 3/4	3/11
3/32	2 3/4	-/8	11/64	3 3/8	-/9 1/2	1/4	4	1/4	1/16	4 5/8	1/10	6/32	5 1/4	2/9	13/32	5 7/8	4/3
7/64	2 7/8	-/8 1/2	3/16	3 1/2	-/11	17/64	4 1/8	1/5	11/32	4 3/4	2/-	27/64	5 3/8	3/-	31/64	6	4/8
1/8	3	-/8 1/2	13/64	3 3/8	1/-	9/32	4 1/4	1/6	23/64	4 7/8	2/2	7/16	5 1/2	3/4	—	—	—

Morse Twist Drills.

No. 2213.

With Round Shanks.

1/2 in. diameter by 2 1/2 in. long.

Diameter. Length. Price, each.



1/8	5 1/8	1/6
3/16	5 3/8	1/6
1/4	5 7/8	1/7
5/16	6	1/9
3/8	6	1/11
7/16	6	2/1
1/2	6	2/3
5/8	6	2/5
3/4	6	2/6
7/8	6	2/9
1	6	2/10
1 1/8	6	3/-
1 1/4	6	3/2
1 1/2	6	3/4
1 3/4	6	3/6
2	6	3/9
2 1/8	6	4/1
2 1/4	6	4/5
2 1/2	6	4/9
2 3/4	6	5/3
3	6	6/-
3 1/8	6	6/7
3 1/4	6	7/3
3 1/2	6	7/10
3 3/4	6	9/-
4	6	10/4
4 1/8	6	12/3
4 1/4	6	14/-

Taper Square Shank Twist Drills.

No. 2214.

For Ratchet Braces.



Diameter.	Length.	Price, each.
1/4	5	4/10
5/16	5	5/4
3/8	6	5/9
7/16	6 1/4	6/1
1/2	6 1/2	6/3
9/16	6 1/2	6/6
5/8	6 1/2	6/9
11/16	6 1/2	7/-
3/4	6 1/2	7/6
13/16	7	8/6
7/8	7 1/2	10/-
15/16	8	11/-
1	8 1/2	12/3
1 1/8	9	15/-
1 1/4	9	17/6
1 3/8	9	20/-
1 1/2	9	23/-

Bit Stock Twist Drills.

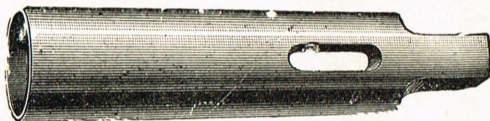
No. 2215.

With Brace Shanks, for Metal or Wood.



Diameter.	Overall Shank to Length.	Point.	Price, each.
1/16	3 3/8	1 1/2	-/7
3/32	3 3/4	1 7/8	-/7 1/2
1/8	4 1/8	2 3/16	-/8 1/2
5/32	4 1/2	2 3/8	-/10
3/16	4 3/4	2 7/8	1/-
7/32	5 1/4	3 1/8	1/1
1/4	5 5/16	4 1/16	1/2
9/32	5 3/8	4 1/4	1/5
5/16	5 1/2	4 3/8	1/8
11/32	5 7/8	4 3/4	1/11
3/8	5 5/4	4 7/8	2/-
13/32	5 3/4	4 7/8	2/2
7/16	6 1/4	5	2/6
15/32	6 3/8	5 1/4	2/9
1/2	6 3/4	5 1/2	3/-
9/16	7 1/2	6 1/4	3/9
5/8	7 1/2	6 1/4	4/3
11/16	7 1/2	6 1/4	5/-
3/4	7 1/2	6 1/4	5/8

Sleeves for Taper Shank Drills.



No. 2211. Sleeve.

No. 1.	To Taper No. 1 for Drills	1/8 to 1 9/32 in.	To fit No. 2 Socket,	4/6 ea.
1 1/2	1	1 9/32	3	6/-
2	2	1 19/32	3	6/-
2 1/2	2	1 31/32	4	7/6
3	3	1 11/16	4	7/6
3 1/2	3	1 13/16	5	11/-
4	4	1 15/16	5	11/-

Combination Centre Drills.



No. 2217 B.

These Drills are made of best steel, carefully tempered, and should be run at a suitable speed for the Drill regardless of the countersink. They save time by doing at one operation that which otherwise requires two. The time wasted in using inconvenient tools often amounts to many times the cost of the tools.

No. 2217A.	Size of Body, 3/10 ; Drill, 1/8 and 3/32 in.,	1/1 ea.	No. 2217E.	Size of Body, 13/64 ; Drills, 1/16 in. ...	1/1 ea.
2217B.	3/10 ; 1/8 in. ...	1/1	2217F.	7/16 ; 3/32 ...	1/4
2217C.	3/10 ; 3/32 ...	1/1	2217G.	7/16 ; 3/16 ...	1/4
2217D.	15/64 ; 5/64 ...	1/-			

LATHE CHUCKS.

Miller's Falls Co.'s

"Star" Chuck.



No. 2218. This Chuck has three steel jaws, carefully adjusted in a socket to keep them in place, and so arranged as to open and close with the loosening and tightening of the Chuck on the spindle.
Highly polished and nickel plated.

No.	Capacity.	Shanks.	Price.
4	0 to $\frac{3}{16}$	$2\frac{1}{2} \times \frac{1}{2}$	6/-
5	0 " $\frac{1}{4}$	$2\frac{1}{2} \times \frac{1}{2}$	8/-
6	0 " $\frac{3}{8}$	$2\frac{1}{2} \times \frac{1}{2}$	11/6
7	0 " $\frac{1}{2}$	$2\frac{1}{2} \times \frac{1}{2}$	15/6

The Original

"Goodell" Chuck.



No. 2221. The three hardened steel jaws are held apart by separating springs which draw the jaws back as the Chuck is loosened.

Fitted with $\frac{1}{2}$ in. shanks.

No.	14.	Holds from 0 to $\frac{5}{32}$ in.	7/6
15.	"	" 0 " $\frac{1}{4}$ "	10/-
15 $\frac{1}{2}$.	"	" 0 " $\frac{3}{8}$ "	12/-
16.	"	" 0 " $\frac{1}{2}$ "	16/-

Also made with either No. 1 or 2 Morse Taper Shanks.

No.	14r.	Holds from 0 to $\frac{5}{32}$ in.	12/6
15r.	"	" 0 " $\frac{1}{4}$ "	15/-
15 $\frac{1}{2}$ r.	"	" 0 " $\frac{3}{8}$ "	17/6
16r.	"	" 0 " $\frac{1}{2}$ "	22/6

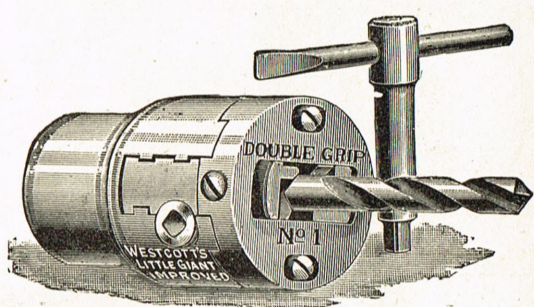
Goodell Pattern Drill Chucks.

No. 2224. With $\frac{1}{2}$ in. Parallel Shanks.

This Chuck is exactly similar to No. 2221 in pattern, and is British made throughout.

Holding from	...	0 to $\frac{3}{8}$	0 to $\frac{1}{2}$ in.
Price	...	7/-	8/- each.
If with Taper Shanks	..	8/-	9/- "

Westcott's Improved Little Giant Drill Chucks.



No. 2222. This Chuck has no projections. The jaws and screws are all within the body. The jaws are of the best tool steel, carefully hardened. A guard ring prevents the jaws from being opened so as to take in larger work than is designed for the Chuck. The hole in the hub is made to fit the Morse Taper, but can be bored out and threaded to suit the customer's templet at a small cost.

No.	00.	Diameter.	Holding Drills.	Price.
"	0.	$1\frac{1}{4}$ in.	0 to $\frac{1}{4}$ in.	54/6
"	1.	$2\frac{1}{4}$ "	0 " $\frac{1}{2}$ "	60/-
"	2.	$3\frac{1}{2}$ "	0 " $\frac{5}{8}$ "	67/6
"	2 $\frac{1}{2}$.	4 "	0 " 1 "	75/-
"			0 " 1 " (extra strong)	80/-

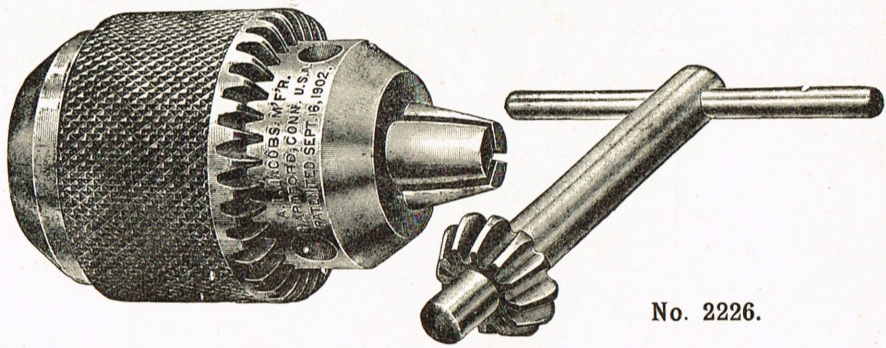
The Almond Drill Chuck.



No. 2222 $\frac{1}{2}$.

No.				Price.
5.	Capacity	0 to	$\frac{3}{16}$	1 8 6
7.	"	0 "	$\frac{3}{8}$	1 8 6
9.	"	0 "	$\frac{1}{2}$	2 7 6
10.	"	0 "	$\frac{3}{4}$	4 12 6
11.	"	$\frac{3}{8}$ "	1	6 8 6

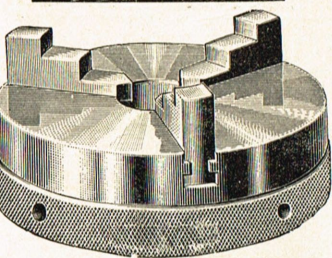
The "Jacobs" Drill Chuck.



No.	1.	Capacity	0 to $\frac{13}{64}$ in.	£	s.	d.
"	2.	"	0 " $\frac{21}{64}$ "	1	5	6
"	3.	"	0 " $\frac{17}{32}$ "	2	2	6
"	4.	"	0 " $\frac{3}{4}$ "	4	4	0

No. 2226.

Amateurs' Lever Chuck.



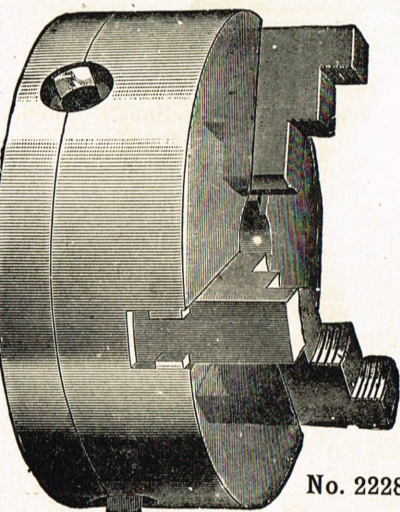
No. 2227.

No. 2227. These Chucks, although designed for light work, being made of first-class material, are suitable for any work within their capacity.

The 3 in. and larger are fitted for a face-plate in the usual way, and screws are supplied for fastening to the plate.

These Chucks may be operated by hand, but a lever is furnished with each Chuck, to use when an extra grip is required. We supply them with Two Sets of Jaws.

Diameter of Chuck.	Diameter of Centre Hole.	Diameter of Recess.	Price, with Two Sets of Jaws.		
2 in.	$\frac{1}{2}$ in.	—	£ 3	s. 5	d. 0
3 „	$\frac{3}{8}$ „	$2\frac{3}{8}$ in.	£ 3	s. 15	d. 0
4 „	1 „	3 „	£ 4	s. 5	d. 0
5 „	1 „	3 „	£ 5	s. 0	d. 0



No. 2228.

Three-Jaw Geared Scroll Chucks.

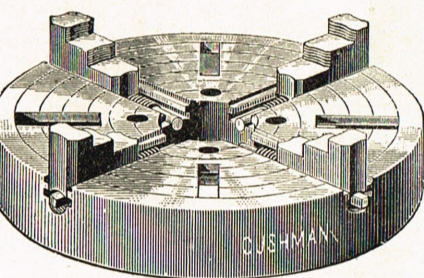
Improved Three-Pinion Geared Scroll Chucks.

These Chucks have been constantly improved up to the present time, and now stand, owing to their accuracy, construction, and durability, unrivalled as Universal Chucks for general use.

The working parts are made of forged steel, and every attention is paid to the mechanical construction to make them right in every respect. A steel key and screws for attaching to face plate are furnished with each Chuck.

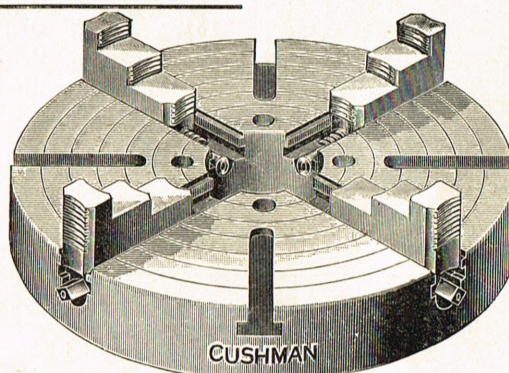
Size.	Diameter of Hole.	Weight.	English Made. Price, Two Sets of Jaws.			American Made. Price, Two Sets of Jaws.		
			£	s.	d.	£	s.	d.
3	$\frac{5}{8}$ in.	$2\frac{1}{2}$ lb.	—	—	—	£ 5	s. 19	d. 0
4	1 „	$6\frac{1}{2}$ „	£ 4	0	0	£ 6	s. 10	d. 0
5	$1\frac{1}{4}$ „	10 „	—	—	—	£ 7	s. 2	d. 6
6	$1\frac{9}{16}$ „	15 „	£ 5	5	0	£ 8	s. 7	d. 6
$7\frac{1}{2}$	2 „	26 „	—	—	—	£ 9	s. 10	d. 0
9	$2\frac{1}{2}$ „	36 „	—	—	—	£ 10	s. 10	d. 0
$10\frac{1}{2}$	3 „	48 „	—	—	—	£ 11	s. 11	d. 0
12	3 „	71 „	—	—	—	£ 16	s. 0	d. 0

Cushman's 4-Jaw Independent Chucks.



No. 2231.

With hardened Steel Thrust Bearings for the Screws.



This type of Chuck is the one most used for heavy work and is manufactured with this fact constantly in mind. The design is the result of careful study. The material is exactly right for its purpose and the workmanship is "Cushman" quality in every part.

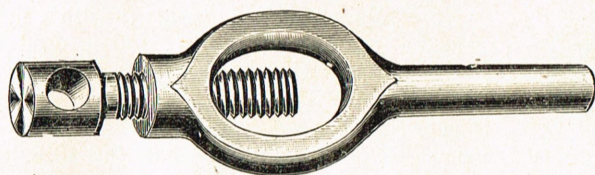
$4\frac{1}{2}$ in., 6 in., and 8 in. have solid faces. 9 in. and 10 in. have openings only in face. 12 in. to 16 in. have T slots only in face.

These Chucks are to be fitted to machine by means of an intermediate flange plate, the back of Chuck being recessed for that purpose. Bolts for attaching are furnished with each Chuck, and a Key Wrench for operating Chuck is also furnished.

APPROXIMATE DIMENSIONS.

Size.	Capacity.	Hole in Body.	Diameter of Recess for Flange.	Weight.	American Make. Price.		
$4\frac{1}{2}$	6 in.	1 in.	$4\frac{1}{8}$ in.	7 lb.	£ 5	s. 17	d. 0
6	$7\frac{1}{2}$ „	$1\frac{9}{16}$ „	$5\frac{5}{8}$ „	12 „	£ 6	s. 8	d. 6
8	$9\frac{1}{2}$ „	$1\frac{3}{4}$ „	$4\frac{3}{4}$ „	29 „	£ 7	s. 12	d. 0
10	$12\frac{1}{2}$ „	2 „	$5\frac{5}{8}$ „	41 „	£ 8	s. 15	d. 0
12	$14\frac{1}{2}$ „	$2\frac{3}{4}$ „	$6\frac{11}{16}$ „	62 „	£ 10	s. 5	d. 0
14	$16\frac{1}{2}$ „	3 „	$6\frac{11}{16}$ „	85 „	£ 11	s. 10	d. 0

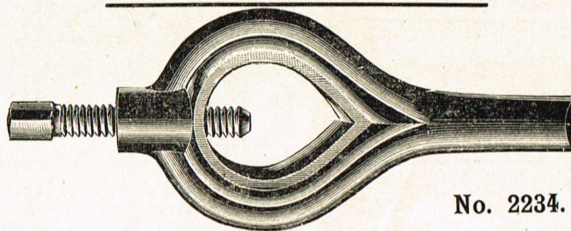
Lathe Carriers.



No. 2233. Best Malleable Iron Body, Steel Screw with hardened point.

$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3 in.
2/3	2/9	3/6	4/-	5/-	5/9	7/6	8/9	10/9 each.

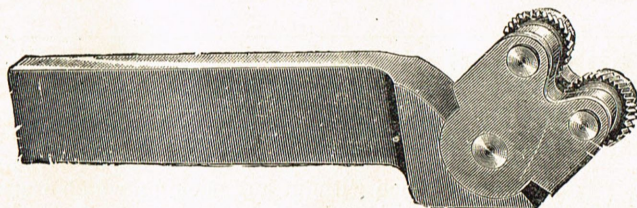
Drop Forged Lathe Carriers with Steel Set Pins.



No. 2234.

$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$ in.
-/10	1/-	1/8	2/3	3/-	4/- each.
$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$ in.	
5/-	6/3	7/6	9/-	10/6	each.

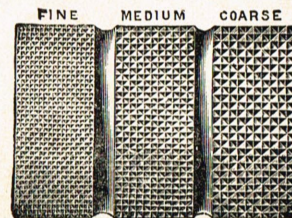
Pratt & Whitney Co.'s Knurling Tools.



No. 2239.

Price of Holder,
with one pair, 32/6

Extra Knurls, 4/- per pair.



The Knurling Tool is designed for checking cylindrical pieces that they may be held firmly by hand. Any desired length and diameter can be checked after the manner of turning in an engine lathe with continuous feed. The Holder is jointed that the Knurls may centre themselves. The pitch of the Knurled Cut is about 20 to the inch for fine, 12 for medium, and 8 for coarse.

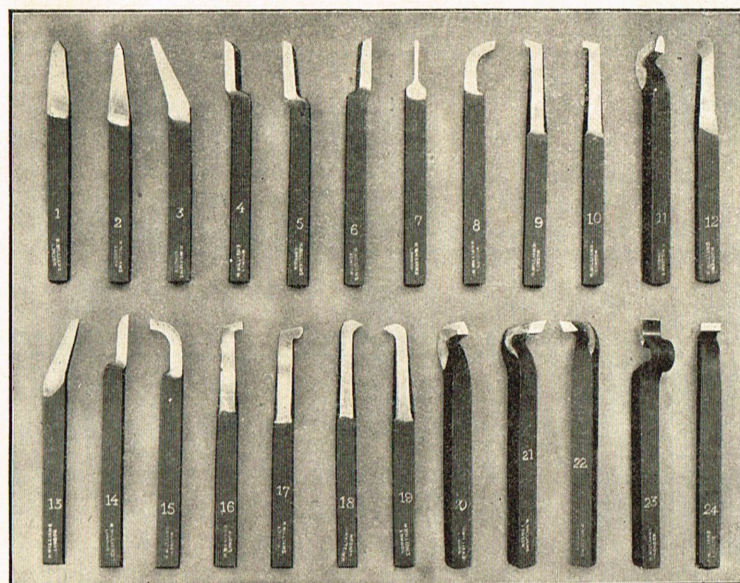
Milling Tools.



No. 2243.

No. 2243. Milling Tool Handle, 3/- each.

„ 2244. Milling Wheels only, to $\frac{3}{16}$ in., 1/3; $\frac{1}{4}$ in., 1/9; $\frac{5}{16}$ in., 2/3; $\frac{3}{8}$ in., 3/6 each.
Assorted patterns.



The "London" Slide Rest Tools.

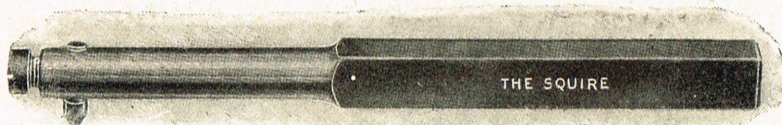
No. 2245.

London Made.

Very Best Quality.

Sizes	...	...	...	...	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in. square.
Prices	...	...	...	...	1/2	1/3	1/5	2/1	3/-	4/- each.
					13/-	14/-	16/-	24/-	35/-	46/6 per set of 12.
					25/6	27/6	31/-	47/-	68/6	90/- „ „ 24.

London Made Boring Tool. No. 1.

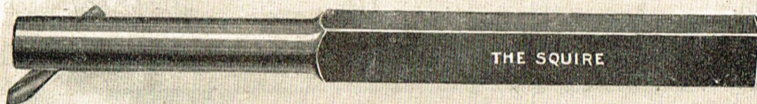


No. 2249.

No. 2249. This tool is fitted with Cutter placed at right angle to bar, and is used for boring and screwing holes where head of screw will clear through.

Size of Shank $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 in.
Price ... 2/6 2/9 3/- 4/6 6/- 9/6 13/6 18/6

London Made Boring Tool. No. 2.

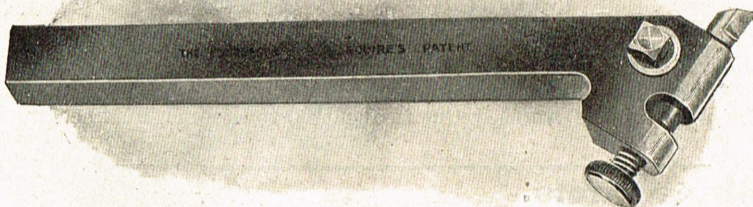


No. 2250.

No. 2250. The Cutter, being fitted at an angle, will not come into contact with Face-plate, Chuck, etc., and can be used for inside work where a Shoulder is required.

Size of Shank $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 in.
Price ... 4/- 4/6 5/- 6/6 8/- 12/- 16/6 23/-

London Made Adjustable Tool Holder.



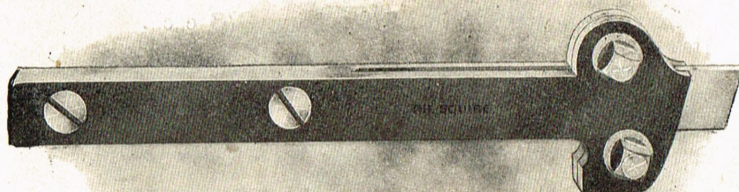
No. 2251.

No. 2251. It possesses the following features: That it can be adjusted from $\frac{1}{2}$ an inch to $\frac{1}{1000}$ part of an inch without any packing, which every turner knows is very important to accurate work. By slackening screw at side of Tool Holder and giving slight turn of knurled screw underneath, the operator can adjust the Cutter to an exactness that will ensure easy and rapid turning.

Complete with Key and 2 extra Cutters.

Size of Shank $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 in.
Price ... 7/6 8/6 10/- 12/6 15/- 19/6 30/- 37/6

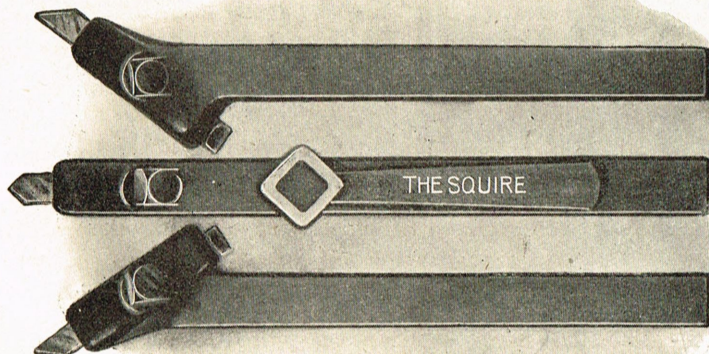
London Made New Pattern Cutting-off Tool.



No. 2252.

No. 2252. Self-tightening. Instantly adjusted in Slide Rest. Made in two halves and securely held in position by tool box.

Size of Shank $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 in.
Price ... 8/6 8/6 8/6 11/6 13/- 19/- 22/6 30/-

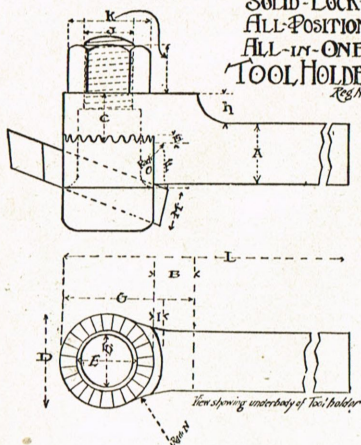


The "Squire" Tool Holders.

No. 2252½. These Tool Holders are made from Solid Steel, and the square hole drifted. Best Quality High Speed Steel Cutters are used, and Steel Keys supplied with each Tool.

$\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 in. Square Shank.
10/6 13/6 17/6 22/6 30/- 37/6 each.

WILLIAMS' SOLID-LOCK ALL-POSITION ALL-IN-ONE TOOL HOLDER
REG. 1163628



SCHEDULE OF DIMENSIONS.

	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
A	.375	.5	.625	.75	1	1.25
B	.25	.333	.416	.5	.6875	.875
C	.3125	.416	.525	.625	.8215	1
D	.5025	.75	.9375	1.125	1.375	1.875
E	.375	.5	.625	.75	.875	1.25
E ₁	.3125	.4165	.5025	.625	.75	1
F	.25	.333	.416	.5	.666	.833
G	.8125	1.09	1.375	1.625	2.0625	2.75
H	.1875	.25	.3125	.375	.5	.625
I	.075	.1	.125	.15	.2	.25
J	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	1
K	$\frac{3}{16}$	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$
L	5	5.75	6.5	7.5	9.5	11.5
M	$\frac{7}{32} \times \frac{1}{16}$	$\frac{9}{32} \times \frac{1}{16}$	$\frac{11}{32} \times \frac{1}{16}$	$\frac{13}{32} \times \frac{1}{16}$	$\frac{15}{32} \times \frac{1}{16}$	$\frac{17}{32} \times \frac{1}{16}$
N	1.25	1.7	2	2.5	3.2	4
O	.1	.125	.15	.2	.25	.3
P	ALSO EQUAL RADII AT BOLT HEAD.					

William's London
Made Solid Lock
Tool Holders.

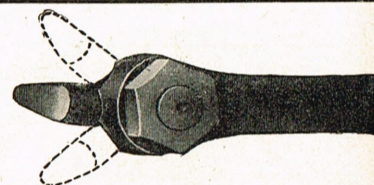
No. 2253 $\frac{1}{2}$.

Drop Forged. Hardened all over.
High Speed Cutters. Serrations give
15° Angle swivel at each tooth.

Sizes $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ in. sq.
Prices 9/6 10/6 12/6 17/6 25/- 40/- ea.



Carr's
"Three in One"
Tool Holders.



The above illustrations show the Carr "Three-in-one" Tool Holder, which takes the place of three ordinary holders or tools, being instantly adjustable for right offset, left offset, or straight. The cutter is locked in either position, and the tool post which sets at an angle with the body gives it the proper rake. When set in the offset position, owing to the angle of the tool post, the cutting edge is raised, giving an additional side rake, which takes a curling cut on steel without grinding a lip on the cutter. For heavy cutting, the tool should be in the offset position.

With Square Cutter.	With Round Cutter.	Drop Head.	Size of Holders.	Size of Cutters.		PRICE. Holder only.	Extra for Cutters.	
				Square.	Round.		Square.	Round.
No.	No.						each.	each.
1	101	201	$\frac{3}{16} \times \frac{3}{4}$	$\frac{1}{4}$ -in.	$\frac{5}{16}$ -in.	8/6	1/-	1/-
2	102	202	$\frac{1}{8} \times 1$	$\frac{1}{16}$ "	$\frac{3}{8}$ "	10/6	1/6	1/8
3	103	203	$\frac{3}{16} \times 1\frac{1}{4}$	$\frac{3}{16}$ "	$\frac{7}{16}$ "	14/-	2/6	2/8
4	104	204	$\frac{1}{4} \times 1\frac{1}{2}$	$\frac{7}{16}$ "	$\frac{1}{2}$ "	17/6	4/3	4/10
5	105	205	$\frac{5}{16} \times 1\frac{3}{4}$	$\frac{7}{16}$ "	$\frac{9}{16}$ "	25/-	6/9	6/7
6	106	206	$1 \times 1\frac{7}{8}$	$\frac{1}{2}$ "	$\frac{5}{8}$ "	42/6	12/10	9/7
7	107	207	$1\frac{1}{4} \times 2$	$\frac{3}{4}$ "	$\frac{3}{4}$ "	52/6	20/5	15/8

No. 2258.

The holder is forged steel, case-hardened, and is furnished in either of three styles; with square or round cutter or in drop head style (for European Type Lathes). Drop head tool holders use round cutters.

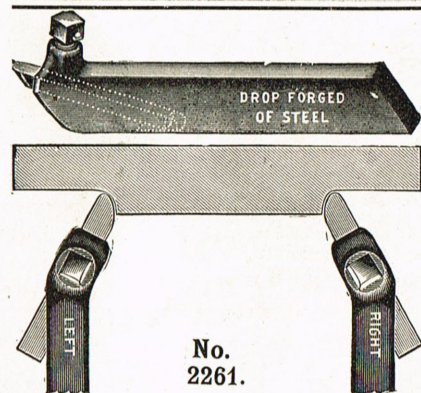
Armstrong Tool Holders.

Right-Hand, Left-Hand, and Straight.

The Holder is drop-forged of steel and case-hardened. The top and bottom are planed square with the sides. The hole for receiving the cutters is drilled and squared from the solid, ensuring a straight and true seat. The Set-screw is tool steel with tempered point. The Cutters are made of special self-hardening steel, and the points ground to shape. With this steel, speeds and feeds can be increased, and grinding will be required less frequently. Self-hardening steel can be made extra hard by heating to redness and cooling off in cold blast. It will be found an advantage to oilstone the edge of the cutters before using.

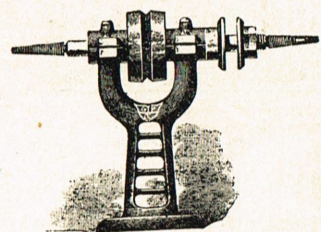
All sizes from No. 1 are made offset, right and left, as illustrated.

COMPLETE, WITH WRENCH AND TWO CUTTERS.



No. 2261.

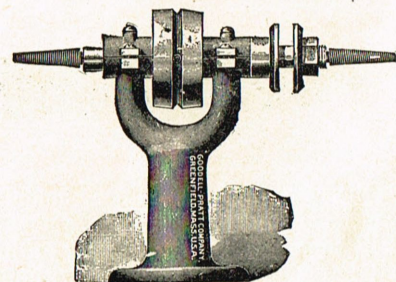
No.	Size of Holder.	Length of Shank.		Size of Cutters.	Price, either Right, Left, or Straight.
		Straight.	Right and Left.		
00	$\frac{5}{16}$ by $\frac{5}{16}$ in.	$4\frac{1}{2}$ in.	5 in.	$\frac{3}{16}$ in. square.	10/-
0	$\frac{3}{16}$ " "	5 "	6 "	$\frac{1}{4}$ " "	10/9
1	$\frac{1}{8}$ " "	6 "	8 "	$\frac{1}{16}$ " "	12/-
2	$\frac{1}{16}$ " "	7 "	9 "	$\frac{3}{8}$ " "	15/-
3	$\frac{1}{4}$ " "	8 "	10 "	$\frac{7}{16}$ " "	20/-
4	$\frac{1}{2}$ " "	9 "	11 "	$\frac{1}{2}$ " "	25/6

Polishing Head.

No. 2266. This Polishing Head has an Iron Frame 6 in. in height; Steel Spindle $\frac{3}{8}$ in. in diameter, and 8 in. long. The distance between the flanges admit of a wheel $\frac{3}{4}$ in. in thickness. The pulley is grooved for a $\frac{1}{4}$ in. round belt, and is $1\frac{1}{8}$ in. in diameter.

Price, 12/- each; weight, $2\frac{1}{2}$ lb.

No. 2267. The same Polishing Head, but fitted with a Three-Jaw Chuck, holding 0 to $\frac{5}{32}$ in. Price, 15/6

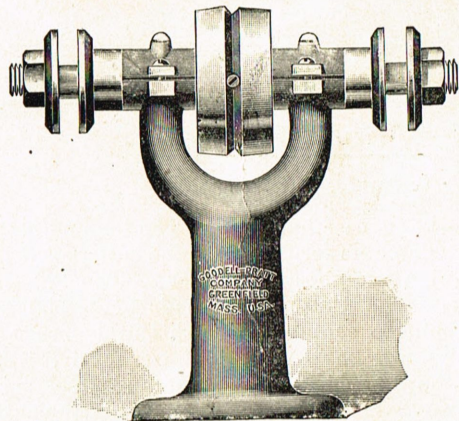
Polishing Head.

No. 2268. This Polishing Head, while constructed similar to those shown above, is more solid, and will give better satisfaction for continued use. It is slightly more than 6 in. in height, and is fitted with a $\frac{1}{2}$ in. Spindle, 10 in. in

length. The distance between the flanges admit of taking in a wheel $\frac{7}{8}$ in. thick. The diameter of the pulley is $2\frac{1}{4}$ in., and it is grooved to take a $\frac{1}{4}$ in. round belt.

Price, 17/6; weight, 4 lb.

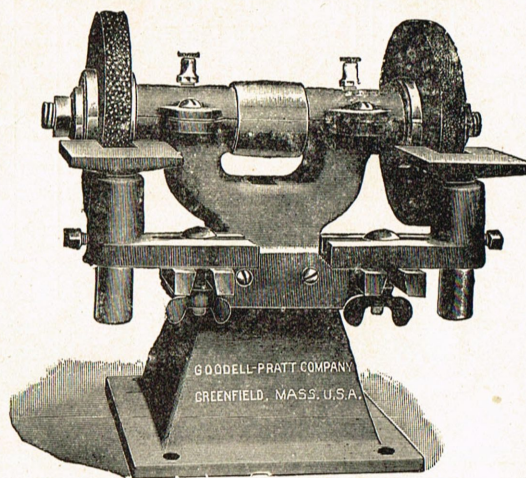
No. 2269. The same Polishing Head, but fitted with a Three-Jaw Chuck, holding 0 to $\frac{1}{4}$ in. Price, 24/-

Grinding Head No. 2270.

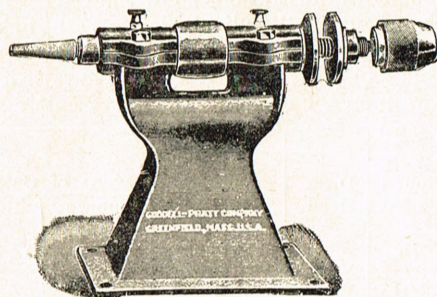
No. 2270. This Grinding Head is a little more than 6 in. in height, and has a $\frac{1}{2}$ in. Spindle; will take wheels $\frac{7}{8}$ in. thick. Weight, 4 lb. Price, 21/- each.

No. 2269 $\frac{1}{2}$. Countershafts to suit Polishing Heads, Nos. 2266, 2267, 2268, 2269 and 2270, for Round Belts. Price, 40/-

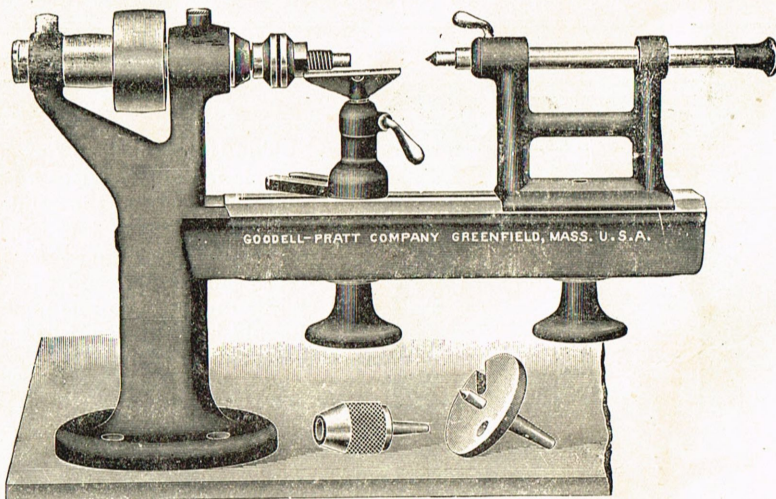
No. 2278 $\frac{1}{2}$. Countershafts to suit Polishing Lathes Nos. 2272, 2273 and 2278, for Flat Belts. Price, 48/-

Bench Emery Grinder.

No. 2272. Height, 7 in. Length of Spindle, 9 in. Takes Emery Wheels $6 \times \frac{1}{2} \times \frac{3}{4}$ in. bore. Weight, 15 lb. Price, without wheels, 73/6.

Polishing Lathe Head.

No. 2273. Height, 8 in. Spindle, $12\frac{1}{2}$ in. Takes Emery Wheel, $8 \times 1 \times \frac{3}{4}$ in. bore. Pulley, $2 \times 1\frac{1}{2}$ in. face. Three-Jaw Chuck takes up to $\frac{3}{8}$ in. Weight, 21 lb. Price, 69/6.

Polishing Lathe.

No. 2278. This Polishing Lathe, complete with tail stock, tee rest, face-plate, saw arbor, and three-jaw chuck (capacity, 0 to $\frac{5}{32}$ in.), admits of a large variety of polishing, grinding, and other kindred operations not possible upon the ordinary styles of plain Polishing Heads. Bed is 12 in. long; height of centres, $2\frac{1}{2}$ in.

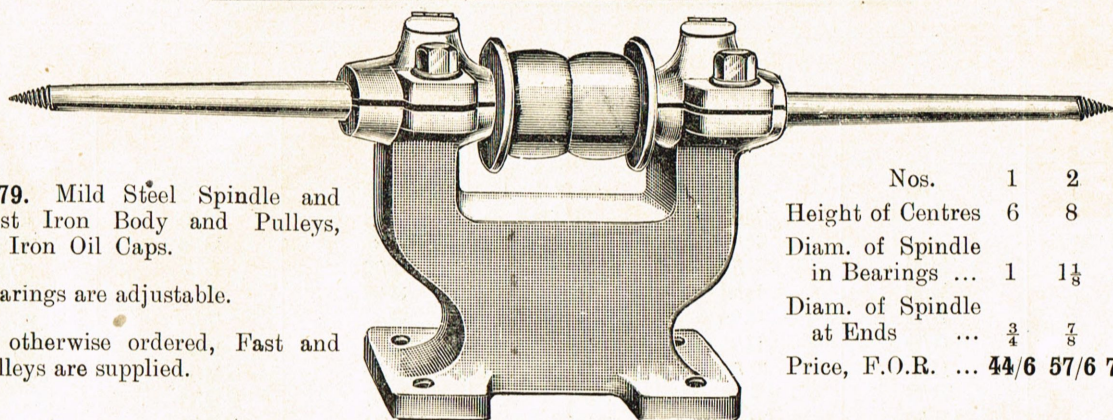
Packed in Wood Box. Price, £3 4 0.

Grinding and Polishing Machines.

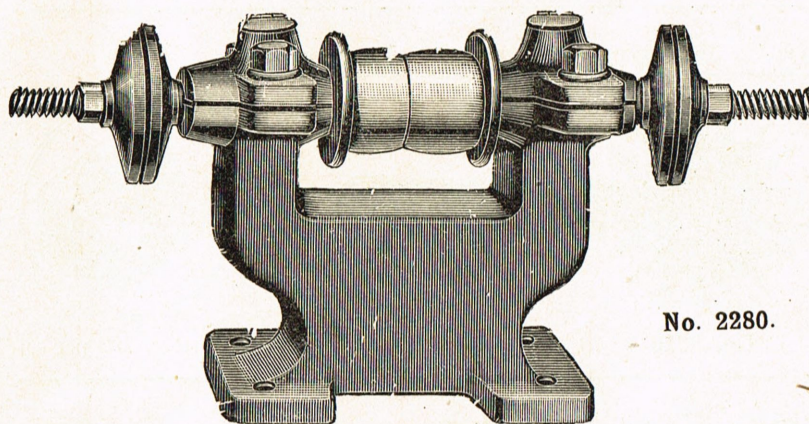
No. 2279. Mild Steel Spindle and Nuts, Cast Iron Body and Pulleys, Malleable Iron Oil Caps.

The Bearings are adjustable.

Unless otherwise ordered, Fast and Loose Pulleys are supplied.



Nos.	1	2	3	4
Height of Centres	6	8	10	12 in.
Diam. of Spindle in Bearings ...	1	1½	1¼	1½ „
Diam. of Spindle at Ends ...	¾	7/8	1	1¼ „
Price, F.O.R. ...	44/6	57/6	75/-	95/-ea.



No. 2280.

No. 2280. Steel Spindle and Nuts; Cast Iron Body, Flanges, and Pulleys; Malleable Iron Oil Caps. The Bearings are adjustable. Unless otherwise ordered, a Fast and Loose Pulley is supplied.

Nos.	1	2	3	4
Height of Centres ...	6	8	10	12 in.
Diam. of Spindle in Bearings ...	1	1½	1¼	1½ „
Diam. of Spindle at Ends ...	¾	7/8	1	1¼ „
Price, F.O.R. ...	47/6	62/6	85/-	105/-ea.

No. 2281. Same Machine, but fitted with Strong Adjusting Grinding Rests ... 60/- 78/- 97/6 130/- each, F.O.R.

No. 2281½. Cast Iron Stands suitable for either Nos. 2279, 2280, or 2281.

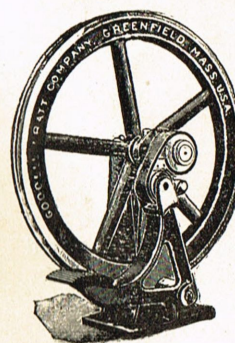
Prices on application.

Foot Power Wheel.

No. 2283.

We have designed this little machine with the view of having a Foot Power of extremely moderate price. It has grooved face for round belt only. The wheel is 16¼ in. in diameter. The net weight of the machine is 25 lb.

Price, 45/- each, F.O.R.

Foot Power Wheel.

No. 2285.

This machine is very compact as to floor space; has a leather belt pull, cannot get on dead centre. The 20 in. wheel with turned face is grooved for round belt, but 1 in. flat belt may be used if desired.

Finished in black and red machine enamel.

Price, 90/- each. F.O.R.

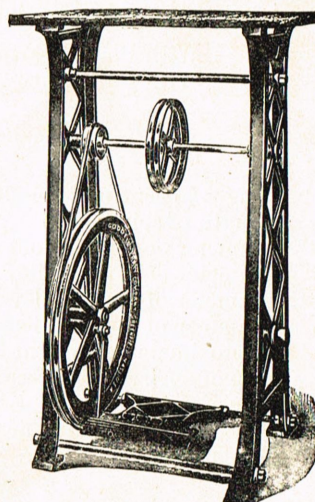
Packed one in a box, 24½ × 21¼ × 9¾ in.

Gross weight, 81 lb.

Net weight, 66 lb.

Foot Power Table.

No. 2288.



This table is, as illustrated, a complete foot power equipment of wheel, treadle, countershaft, and bench.

Height, 39 in. Table Top, 24 × 14 in.

Foot Wheel, 20 in. diameter.

Countershaft Wheels, 3 × 8¼ in.

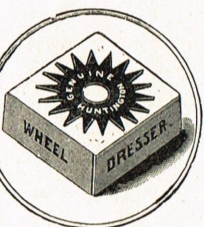
Net Weight, 115 lb.

Price £9 7 6 each. F.O.R. London.

Norton Emery Grinding Wheels.

Thickness of Wheels in Inches.

Diam. in inches.	$\frac{1}{4}$	$\frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
1	1/4	1/6	1/11	2/3	2/6	3/-
1½	1/11	2/3	2/10	2/3	3/6	4/2
2	1/11	2/3	2/10	3/3	3/6	4/2
2½	2/6	3/3	3/9	4/6	5/-	5/10
3	2/6	3/3	3/9	4/6	5/-	5/10
4	3/5	4/3	5/1	6/-	7/-	8/-
5	4/9	6/-	7/-	8/3	9/6	10/6
6	6/-	7/6	9/-	10/6	12/6	14/-
8	8/8	11/3	14/-	16/3	19/3	21/-
10	11/3	15/6	19/6	23/9	27/9	32/-
12	13/3	18/9	24/6	29/9	35/6	41/-

The "Huntington" Emery Wheel Dresser.

Price, complete, 4/-

No. 2329.

Extra Cutters, -/8 per set.

High Class Tool Grinder.

This illustration shows a new design Column Tool Grinder, as supplied with water pot, tool tray, and self contained overhead gear.

The material, workmanship and finish of these machines is equal to the best engineering practice.

With Plain Bearings	...	£11	0	0
With Ball Bearings	...	£13	0	0

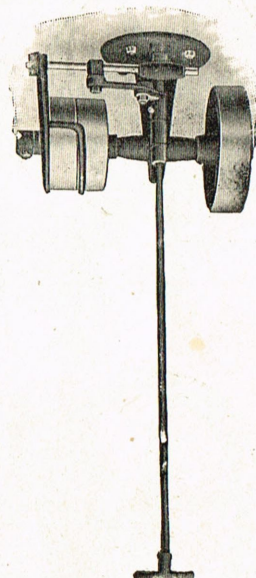
Specification.

Height to centre of spindle	...	...	...	42½ in.
Length of spindle	...	...	...	17 "
Diameter of column foot	...	...	...	15 "
Diameter of small pulley	...	...	...	2 "
Diameter of large pulley	...	...	...	8½ × 2 "
Diameter of fast and loose pulley	...	...	...	4 × 1¾ "
Approximate net weight in lbs.	...	...	...	130
Size of emery wheel recommended	...	...	...	8 × 1¼ ins.
Size of " " for small end	...	...	...	5 × ½ in.
Speed for overhead gear	...	...	...	600 r.p.m.
Speed of wheel	...	...	...	2,400 r.p.m.

Wheels Extra.

Tool Grinder.

As Bench Machine, with Water Pot	...	£5	5	0
Wheel Guard only (Malleable Iron)	...	17	6	
Pillar	...	£2	5	0
Overhead Gear	...	£3	3	6
If fitted with Ball Bearings	...	£2	0	0

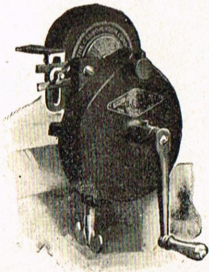


Overhead Gear, fitted with ring lubricator.

Plain or Ball Bearings.

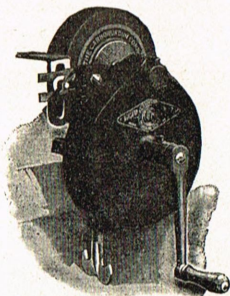
Carborundum Niagara Grinders.

Each machine is made right, of the right materials, in modern plant, under careful supervision. Every part from castings to nuts is accurately made, perfectly fitted. The gear-case is made of the best grade of grey iron, the two sections being ground to a fit, making the case absolutely oil-tight. The gears are accurately cut, they run smoothly and practically noiseless. The handle and thumbscrew clamp are made of malleable iron to withstand strains, and all small parts are nicely finished. In design, workmanship, and mechanical construction Carborundum Niagara Grinders are superior. Every machine is fitted with a Carborundum wheel, the fastest, coolest cutting of all wheels for general grinding purposes. In ordering extra parts or wheels, specify model number which appears on name plate of each machine and on extra part list accompanying each machine.

**Niagara Grinder No. 1**

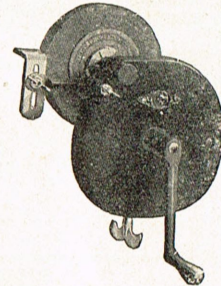
An ideal little machine for household use, hotels, clubs, butcher shops, etc. It is a powerful, compact machine, smooth running, and dirt-proof. The machine is equipped with an adjustable tool rest to guide the work, and is fitted with a fine grit Carborundum wheel 4 inches in diameter and 1 inch thick, $\frac{7}{8}$ -inch arbor hole.

Weight packed	...	...	...	10 lbs.
Niagara Grinder No. 1, price each complete	...	...	...	20/-

**Niagara Grinder No. 3**

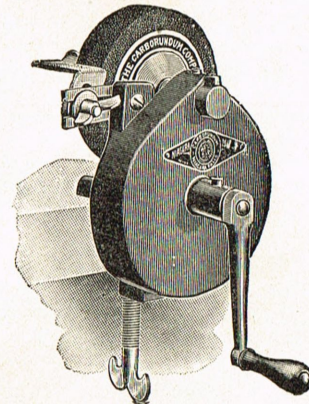
Carborundum Niagara Grinder No 3 is fitted with a medium grit Carborundum wheel, 6 inches in diameter, 1 inch thick, 1 inch hole, and an adjustable tool grinding guide.

Weight packed	...	...	...	14½ lbs.
Niagara Grinder No. 3, price each complete	...	...	...	41/-

**Niagara Grinder No. 2**

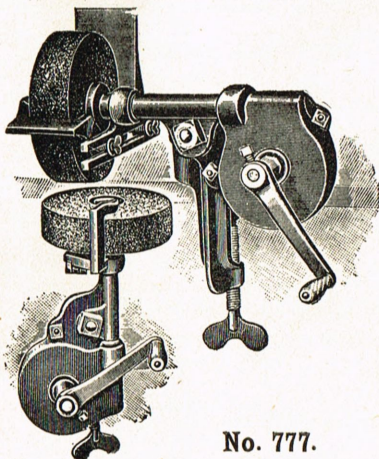
The Niagara Grinder No. 2 is practically the same machine as No. 1; it is larger and therefore can be used in heavier work in wood-working and repair shops. It is strong, durable, and capable of standing a lot of wear and tear. The machine is fitted with an adjustable tool rest and a Carborundum wheel 5 inches in diameter and 1 inch thick, $\frac{7}{8}$ -inch arbor hole of medium grit.

Weight packed	...	...	...	11½ lbs.
Niagara Grinder No. 2, price each complete	...	...	...	30/-

**Niagara Grinder No. 4**

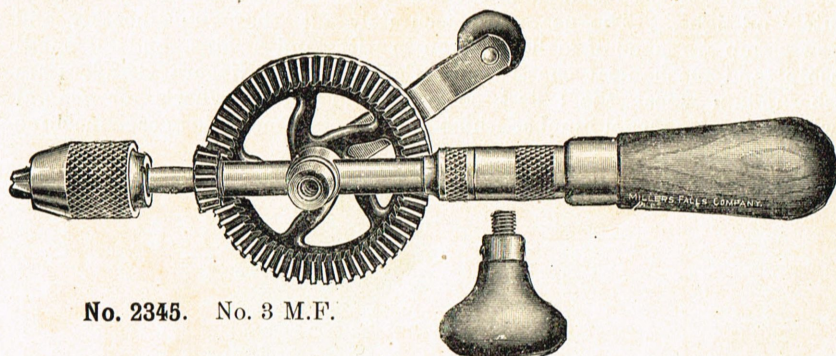
Carborundum Niagara Grinder No. 4 is fitted with an adjustable tool grinding guide and a Carborundum wheel 7½ inches in diameter, 1½ inch thick, 1½ inch arbor hole.

Weight packed	...	...	...	26 lbs.
Niagara Grinder No. 4, price each complete	...	...	...	56/6

INVICTA GRINDER.**No. 777.**

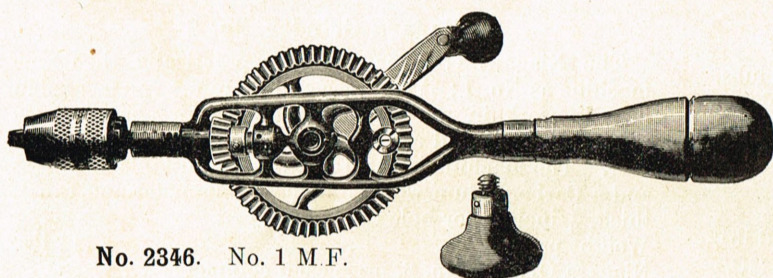
No. 777. No. 55. A very popular hand power Grinder. The grinding wheel can be tilted at any angle desired. Main shaft works on ball bearings, which gives it a very quiet and easy running motion. Size of Dima-Grit grinding wheel, 5 by 1½ in. The body of the wheel is medium coarse for general tool grinding; the face is of a very fine grit for fine edged tools.

Price, **50/-**

HAND DRILLS.**No. 2345.** No. 3 M.F.

Price, No. 3 M.F. **14/-** each.

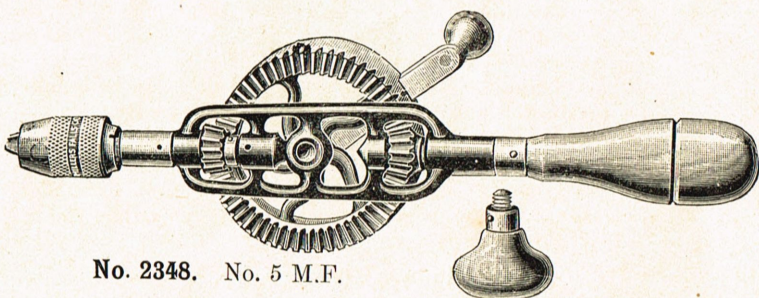
This is a new pattern, and the handle is hollow and specially adapted to hold twist drills of the ordinary length from 0 to $\frac{3}{16}$ in. Length 11 in., diameter of drive wheel $3\frac{3}{16}$ in. All bright parts are nickelled. Drive gear japanned. No drills included.

**No. 2346.** No. 1 M.F.

Price, including 8 fluted points in hollow handle **14/-** each.

These Drills are now made with three jaws, resting in solid sockets, and there are no springs to get out of place or out of order. The chucks are nickelled, and the handles Cocobola. They hold drills from 0 to $\frac{3}{16}$ in. A side handle, as shown in cut, is now furnished with this drill.

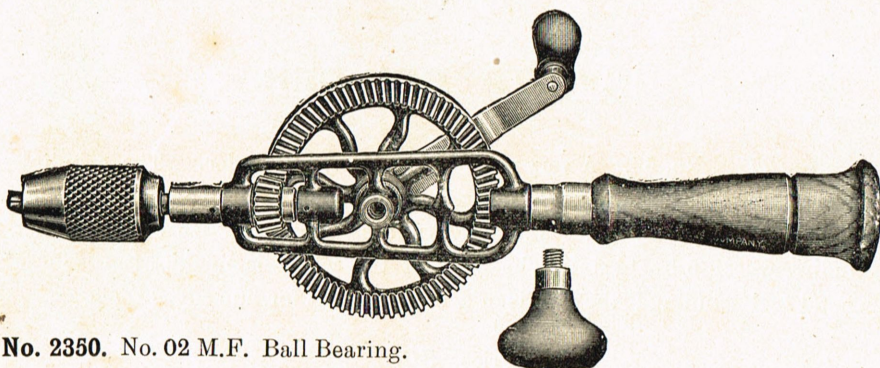
No. 2347. The above is also made with solid Handle and without Drill Points, **12/6**

**No. 2348.** No. 5 M.F.

Price, including 8 fluted points **15/3** each.

This Drill has same chuck as No. 1, but is double-gearred, and is provided with a wide rim gear, to be grasped between thumb and fingers when the drill is used for delicate work. In this manner it can be run without liability of breaking points. Length over all, $11\frac{1}{2}$ in.; weight, 20 oz.

No. 2349. The above is also made with Hollow Handle similar to No. 3 to take in ordinary length Twist Drills. Price without Drills, **13/9** each.

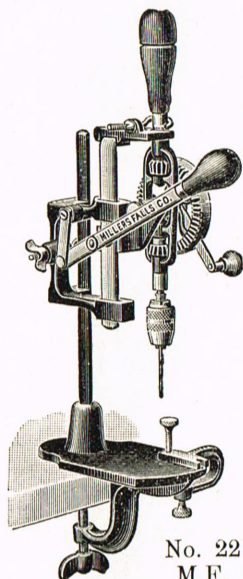
**No. 2350.** No. 02 M.F. Ball Bearing.

Price, with Solid Handle **18/-** each.

This Drill is same in general finish as No. 1, described above. It has cut gears and an adjustable friction roll to prevent gears from springing out of engagement. The chuck holds from 0 to $\frac{3}{8}$ in. Length, $14\frac{1}{2}$ in.

Miller's Falls Bench Drill Presses.

Nos. 22 M.F. and 23 M.F.



No. 22
M.F.

The Drill Press herewith illustrated is of very simple construction, and is made to meet the demand for a moderate priced but effective Drill. It is designed to be used in connection with our Hand Drills, Nos. 1 M.F., 2 M.F., and 5 M.F., any of which may be attached to the frame in a very few seconds.

The feed is supplied by a compound lever which is convenient, sensitive, and effective.

The frame is made of steel and iron, japanned.

The distance between the chuck and table when Hand Drill No. 1 or 5 is used at highest point is 7½ in. When Hand Drill No. 2 is used, 6½ in.

Weight, 7½ lb.; height over all, from table, 15½ in.
Packed in a telescope paper box 17½ × 7½ × 4¾.

This Press is like No. 22 in construction, except that it has a permanent operating attachment with geared spindle, and drill chuck holding drills from 0 to ¾ of an inch.

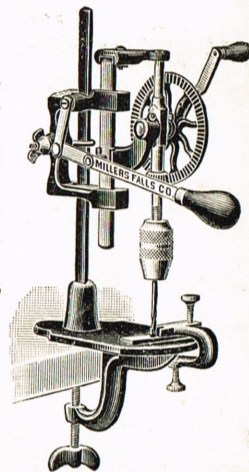
The distance from chuck to table, with sliding frame at highest point, is 6½ in.

Finished in Japan and bright nickel.

No. 2354½.

Weight, 8½ lb.

Price, as shown, 40/-

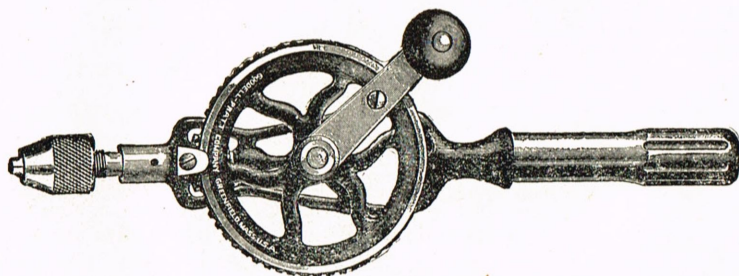


No. 23
M.F.

No. 2351.	Price of Frame only	...	...	...	...	...	...	...	...	...	23/-	each.
" 2352.	" " " " complete with Hand Drill No. 1	...	...	...	...	...	...	...	...	...	38/6	"
" 2353.	" " " " " " " 5	...	...	...	...	...	...	...	...	...	40/-	"
" 2354.	" " " " " " " 02	...	...	...	...	...	...	...	...	...	44/-	"

Hand Drill. No. 2355.

No Drill Points Furnished with this Tool.



Chuck.—Three Jawed; capacity, 0 to ⅝ in. It has a knurled nickel plated shell and is entirely of steel, with hardened Jaws.

Price, 11/6 each.

No. 2355. This Drill was designed with the idea of offering a small Drill of good quality at an extremely moderate price.

Handle.—Brass, white nickelled. Can be quickly removed and used as a receptacle for Drills.

Frame.—Malleable Iron, well japanned.

Gears.—Cut Teeth, nickel plated.

Guard.—The Gears are held together by a Steel Guard, having every advantage of a Double Geared Drill.

Goodell Improved Hand Drill.

Handle.—Polished Hard Wood, with Patent Drill Receptacle.

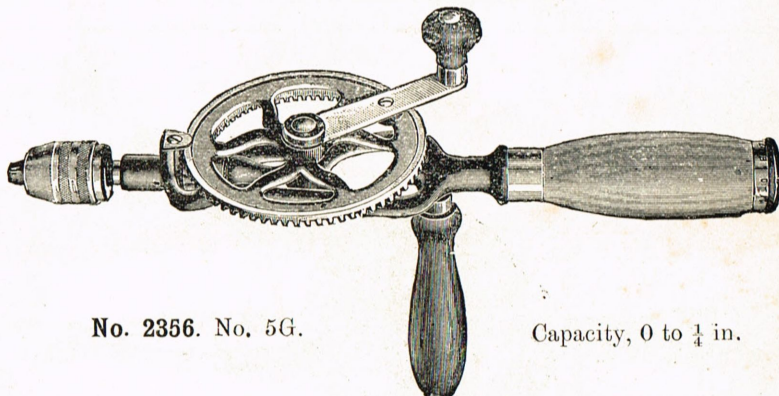
Extra Side Handle.—Polished Hard Wood; can be removed at will.

Frame.—Malleable Iron, well Japanned.

Gears.—Cut Teeth, nickel plated.

Guard.—Both Gears are held together by a steel guard, having every advantage of a Double Geared Drill.

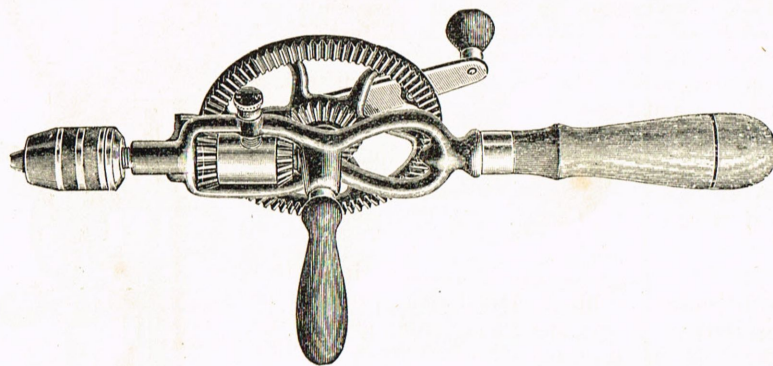
Chuck.—Three Jawed; capacity, 0 to ¼ in. It has Knurled Nut, nickel plated, and is well made and accurate. Will hold any Twist Drill from ¼ in. to No. 80.



No. 2356. No. 5G.

Capacity, 0 to ¼ in.

Equipment.—Eight Fluted Drill Points are furnished with each tool, all contained in the handle. Price, 21/- each.

Goodell Hand Drill.

No. 2357.

No. 2357. No. 5½ G.

Capacity, 0 to ⅜ in.

It has Double Gears. Two Speeds, and a Chuck with capacity to ⅜ in.

Frame.—Malleable Iron, Japanned.

Handle.—Polished Cocobola, Screw Cap.

Gears.—Cut Teeth.

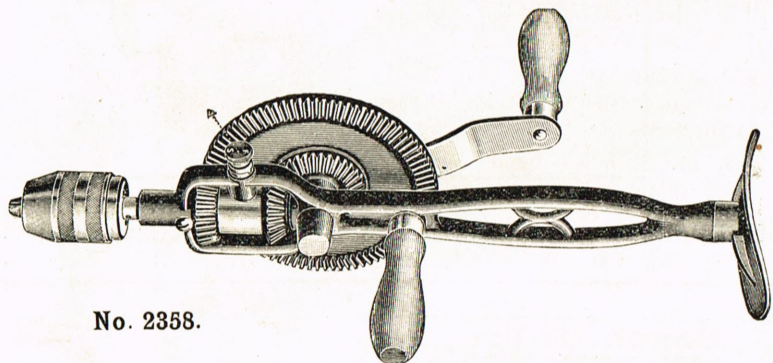
Speeds.—It has two Speeds, changed by turning the nut on the frame marked "F" and "S."

Chuck.—Three Jawed; capacity, 0 to ⅜ in. It has Knurled Nut, nickel plated, well made and accurate.

Spindle runs in a hardened steel cone bearing.

No Drill Points are furnished with this tool.

Price, 28/6 each.

Goodell Breast Drill.

No. 2358.

No. 2358. No. 6 G.

It has a Three-Jawed Chuck, capacity, 0 to ½ in., is Double Geared, one gear remaining "idle" and acting as an anti-friction bearing when the other is at work.

All Gears have cut teeth. It has two speeds, and can be changed from fast to slow by turning the thumb nut at "A" until the letter representing desired speed is nearest the chuck.

The Spindle runs in a hardened steel cone bearing.

Each Drill is packed in a box.

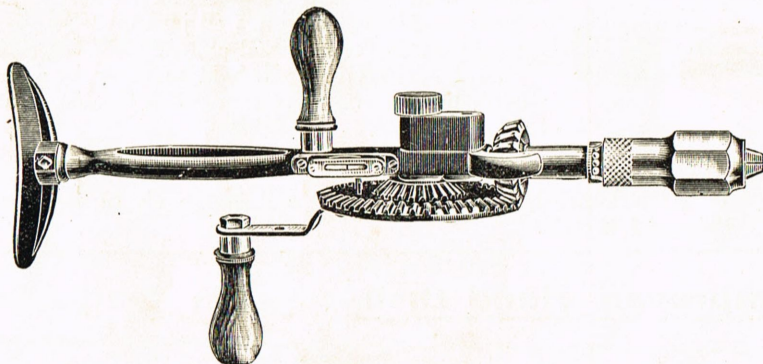
Price, 31/- each.

No. 2358½. Similar to above but Japanned throughout. Price, 28/6 each.

Breast Drill.

No. 2362. No. 12 M.F.

Changeable gear from even, to speeded about 3 to 1.

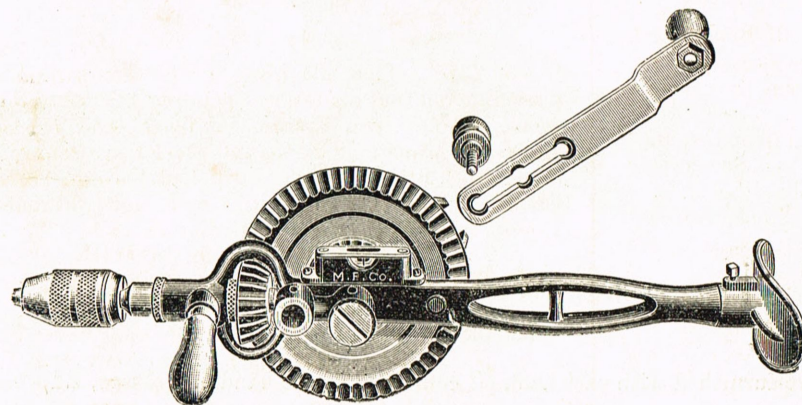


This Drill has been greatly improved. As now made the drive wheel is 5 in. in diameter. A roller is placed at back of drive gear, which makes it equally as firm and substantial as a double geared drill. The chuck is nickelled. The handles are Cocobola. A new feature is the level attachment which enables the operator to see when the drill is being held true. Everything about the tool will be found durable and nicely finished.

12 M. Fitted with improved Master Chuck, price, 30/- each.

Breast Drill.

No. 2364. No. 118.



Excepting in the chuck, our No. 118 Breast Drill is the same as No. 12 described above. The chuck is arranged with three jaws for round shank drills only, from 0 to ½ in.

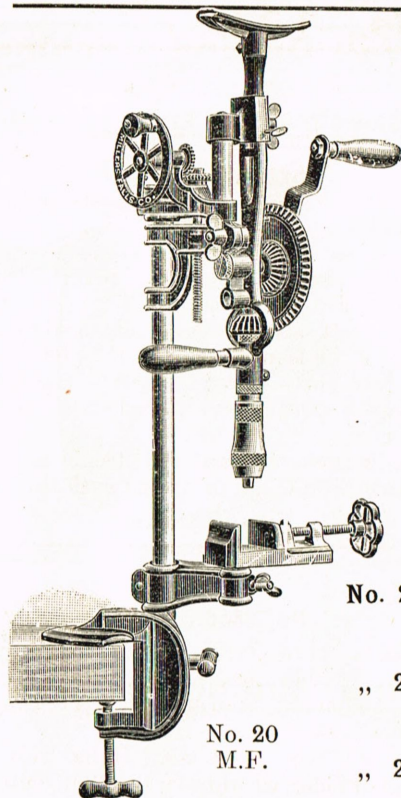
Price, 33/- each.

Universal Drill Press.

The Standard and Frame in Drill Press, as exhibited in Fig. 20, was designed to apply our No. 12, or 18 Breast Drill, so as to convert into a Drill Press or Bench Drill. The illustration shows our No. 12 Breast Drill thus converted. The No. 18 Breast Drill can be converted with equal ease.

The Table can be reversed to present either a Vice or Table, as the operator may require, and is hung on a pin off centre to admit of a variety of positions.

Fig. No. 21 represents the Universal Hand Drill Press with special Drilling Attachment provided for it. This Drilling Attachment has double gears (large 5 in., small 2 in. in diameter), Extension Handle, 3-jawed Chuck, taking straight shank drills from 0 to $\frac{1}{2}$ in.

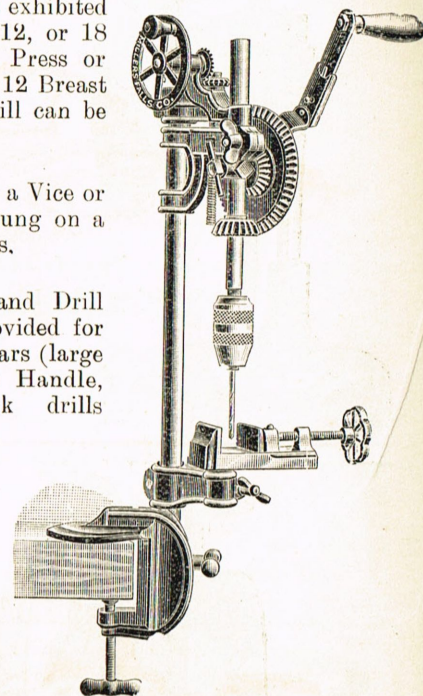
No. 20
M.F.

Nos. 2368 and 2369.

No. 2368. Price for Attachment only, as Fig. No. 20 (without Breast Drill), each **57/6**

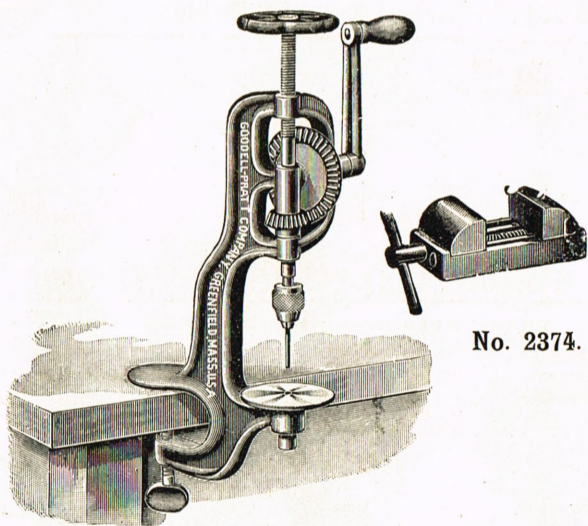
„ 2369. 420 complete. Price for Drill Press, complete with No. 12 M Breast Drill, **88/-**

„ 2370. Price of Standard and Drilling Attachment complete, as Fig. No. 21, each **81/-**



No. 21 M.F. No. 2370.

In ordering No. 20, take note that the Breast Drill is not included.

Bench Drills.

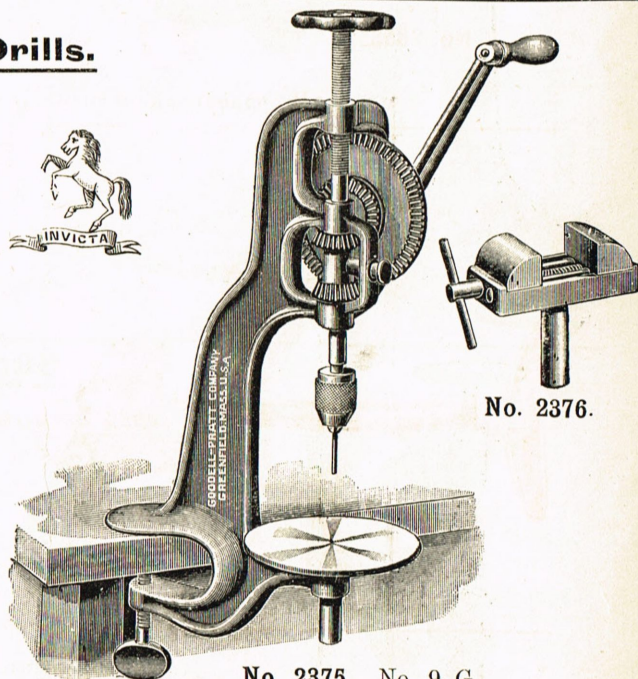
No. 2373. No. 8 G.

No. 2373. Nothing in the line of a small Bench Drill of excellent quality and moderate price has ever been put on the market which can compare with the line we are here illustrating.

The No. 8 G, above shown, is a substantial little machine, with solid Iron Frame, Cut Gears, Steel Feed Screw, and adjustable Table, all well made and nicely fitted. It is furnished complete with a Three-jawed Chuck, capacity 0 to $\frac{1}{4}$ in., and eight Fluted Drills. The height from the table to the feed wheel is 13 in.

The machine is finished in an attractive manner, and is a very great improvement upon those we have previously sold. Price, **40/-** each. F.O.R.

No. 2374. Special Vice to suit above, and opening 1 $\frac{3}{16}$ in., Price, **11/6** each.



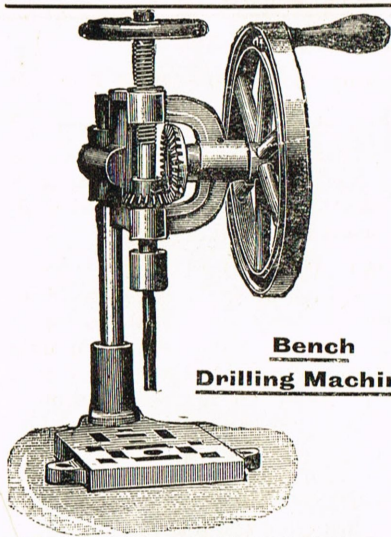
No. 2375. No. 9 G.

No. 2375. This machine is the companion to the preceding one, but made correspondingly larger and heavier. It has a solid Iron Frame, Cut Gears, and two different speeds, an adjustable Table and Steel Feed Screws, all well made and fitted. It is furnished with a Three-jawed Chuck, capacity 0 to $\frac{3}{8}$ in., and eight Fluted Drills. Height from table to the feed wheel is 18 in.

Price, **62/6** each. F.O.R.

No. 2376. Special Vice to suit above, and opening 2 in. Price, **17/6** each.

No. 2375. Is also made with sensitive Lever Feed. No. 90 G. Price, **80/-** each. F.O.R. Or with Patented Automatic Feed, No. 490 G. Price, **90/-** each. F.O.R. Vice for No. 90 G. or 490 G., **17/6** extra.

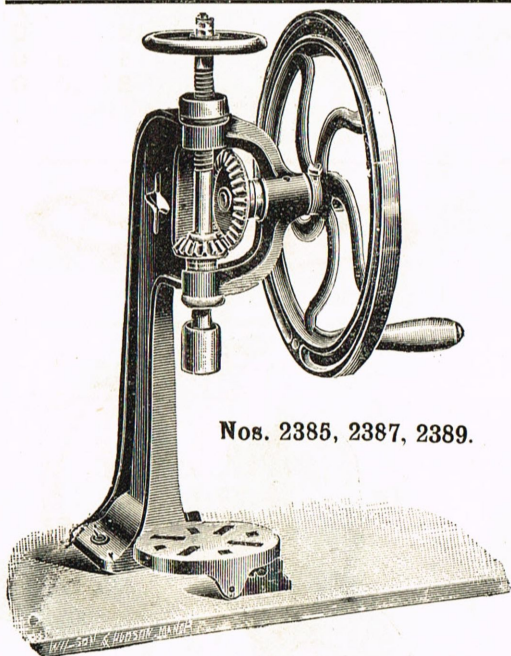
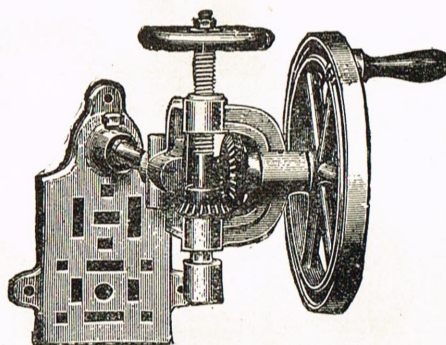
Combined Bench and Wall Drilling Machine.**Bench Drilling Machine.**

Drill Holes Up to.	Depth of Feed.	Total Height.
No. 2378. $\frac{5}{8}$ in.	2 in.	20 in.
„ 2379. 1 „	4 in.	30 „

Weight.	Diam. of Fly-wheel.	Prices.
36 lb.	18 $\frac{1}{2}$ in.	£ s. d. 4 10 0
1 cwt. 1 qr.	20 „	9 0 0

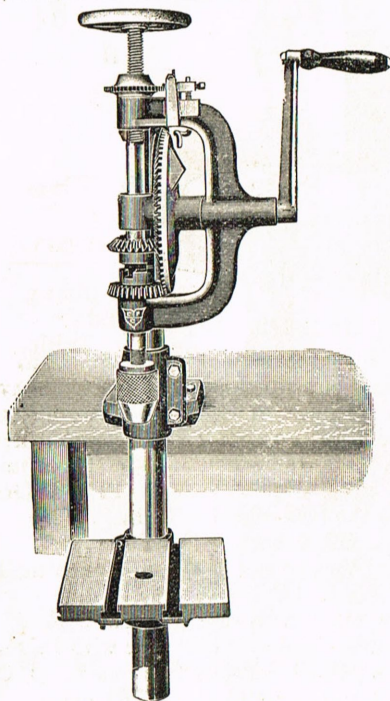
Same Machine Fixed to Wall.

Carriage Forward.

**Nos. 2385, 2387, 2389.****Bench Drilling Machines.**

- No. 2385. No. 7B. Fly-wheel at side, weight, 42 lb. Drills up to $\frac{5}{8}$ in. Price, **£4 10 0**
- „ 2387. No. 9B. Fly-wheel at side, weight, 82 lb. Drills up to $\frac{7}{8}$ in. Price, **£6 0 0**
- „ 2389. No. 10B. Fly-wheel at side, weight, 120 lb. Drills up to 1 in. Price, **£10 10 0**

For Drills to suit see No. 2213 on page 118.

Superior Finish Light Bench Drills.**Extra Attachments.****Nos. 11G and 11 $\frac{1}{2}$ G.**

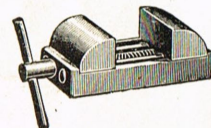
1 Plain Centre.



1 Cup Centre.



1 V Centre.



1 Machine Vice.

General Description of Drills.

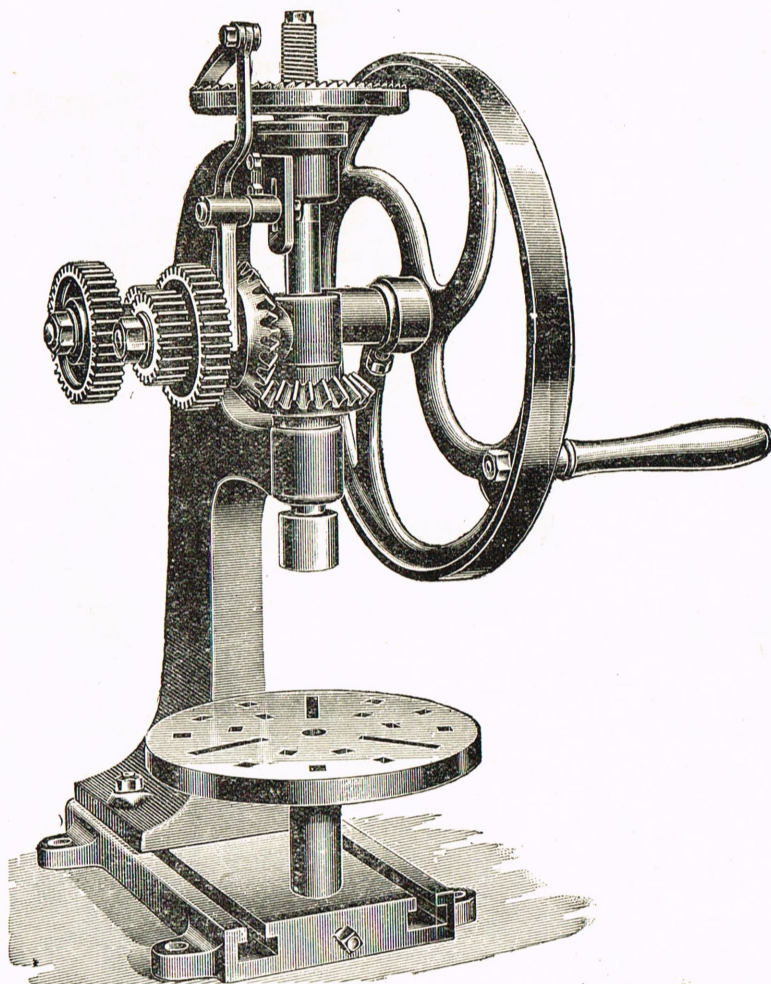
Upright Shaft of polished steel tube, 1 $\frac{1}{2}$ in. diameter, 24 in. long; all the working parts of the machine are clamped to it. Gears are cut from solid blanks and run smoothly. Chuck: A three-jawed chuck, capacity 0 to $\frac{1}{2}$ in., is fitted to each machine. Table, milled and slotted, size 6 in. by 6 $\frac{1}{2}$ in., adjustable up and down or right and left, or can be entirely removed, and work blocked up from the floor if desired. Speeds: Two, changed by throwing cam attached to shifter knob.

Nos. 11G and 11 $\frac{1}{2}$ G are in every way identical with Nos. 10G and 10 $\frac{1}{2}$ G, with the addition, however, of an Automatic Feed, which can be used or thrown out at the will of the operator.

Price, No. 10G, **120/-** No. 10 $\frac{1}{2}$ G, which is No. 10G, complete with Set of 4 Extra Attachments, **145/-** F.O.R.

Price, No. 11G, **130/-** No. 11 $\frac{1}{2}$ G, which is No. 11G, complete with Set of 4 Extra Attachments, **155/-** F.O.R.

**English-made Drilling Machines,
with Self-acting Feed.**



No. 2393. No. 1903.

To Drill Holes $1\frac{1}{2}$ in. diameter by Hand or Steam Power.

This Drill is specially recommended for hand and power, the shaft having a good bearing to receive pulleys. Specially made double-gear with two speeds. Geared to receive power to drill large holes and speed for small holes.

SPECIFICATION.

No. 2393. Self-acting feed, base plate 18 in. long, height from bottom of base plate to top of feed wheel 30 in., admits in depth from spindle to base plate 13 in., admits in diameter 14 in.; drill holes $1\frac{1}{2}$ in. diam., 6 in. deep. Round Table, 12 in. diam., rise and fall, 4 in. For drilling very large articles the body of the machine can be moved forward in T-slots in base plate until it overhangs the bench, when large articles can be drilled from the floor.

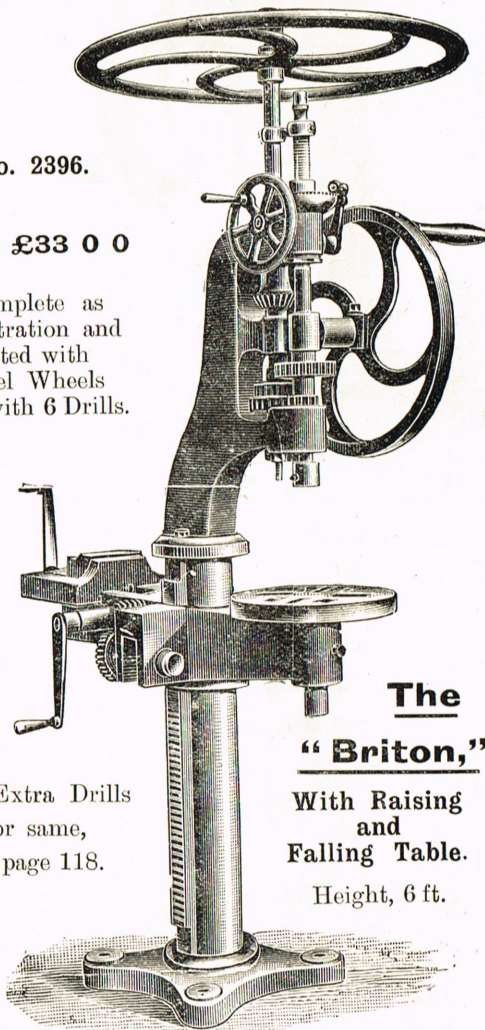
	£	s.	d.
Price, Hand-power ...	14	0	0
„ extra for Pulleys ...	1	5	0
„ „ „ Vice ...	3	0	0

For Drills see No. 2213 on Page 118.
Approximate Weight 2 cwt.

No. 2396.

Price, £33 0 0

Complete as
Illustration and
fitted with
Steel Wheels
and with 6 Drills.



**The
“Briton,”**

**With Raising
and
Falling Table.**

Height, 6 ft.

**Invicta
High Speed Drill.**

For Holes up to $\frac{1}{2}$ in.

Specification.

(Type A and B).

See also Page 134.

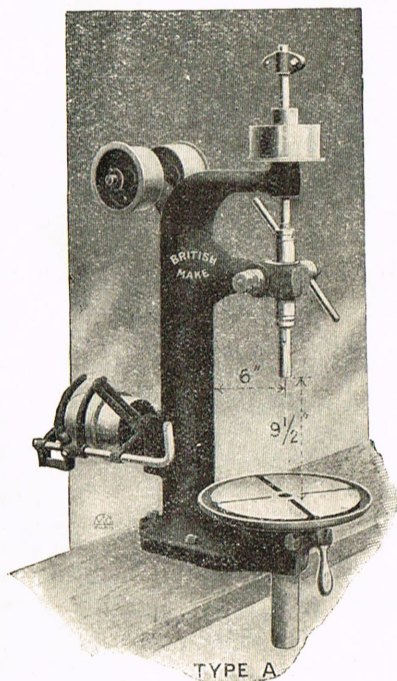
Drills to centre of ...	12 in.
Diameter of spindle ...	$\frac{11}{16}$ „
Diameter of all pulleys $4 \times$...	$1\frac{5}{8}$ „
Diameter of table ...	$9\frac{1}{2}$ „
Distance spindle to table ...	$9\frac{1}{2}$ „
Feed of spindle ...	$3\frac{1}{2}$ „
Height, table to floor, Type B ...	$39\frac{1}{4}$ „
Diameter of Body ...	$3\frac{1}{4}$ „

Price.

	£	s.	d.
Type A. ...	8	10	0
Type B., on Pillar Stand. ...	11	0	0

For Extra Drills
for same,
see page 118.

Diam. of Spindle	Weight.	Drills Holes up to.	Depth of Feed.	Fly- Wheel.	Driving Wheel.	Pulleys extra with Strap Fork.	Drills Centre of
$1\frac{1}{4}$ in.	5ct. 2qr.	$1\frac{1}{2}$ in.	6 in.	30 in.	23 in.	40/-	22 in.



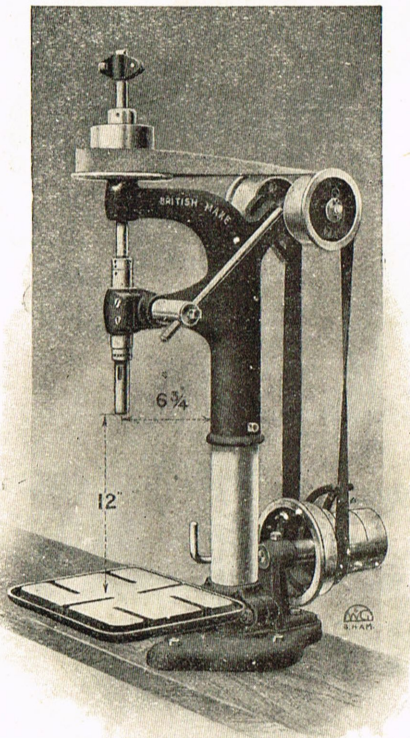
The "Invicta" 12 inch and 13½ inch Drilling Machines.

High Class Workmanship and Design.

These Machines are designed for accurate and rapid drilling. The workmanship is equal to the best machine tool practice, spare parts being interchangeable. The driving pulleys can be adjusted to tighten the belt and the spindle pulley runs on a fixed bush, thus relieving the spindle of belt strain. An adjustable stop is provided which limits the motion of spindle and ensures holes of a uniform depth. A water groove table with T slots is fitted and is arranged for the waste water to pass down the stem. Three-speed overhead gear can be supplied for Type A, and is fitted with ring lubrication. The drill spindle is supplied with ball thrust and No. 1 Morse taper, also with No. 2 Morse taper or drill chuck at request.

For Holes up to ½ in.

For Holes up to ¾ in.



TYPE E.

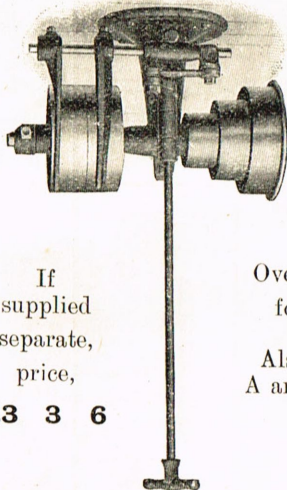
SPECIFICATION :
(Type E.)

Drills to centre of	...	...	13½ ins.
Diam. of Fast and Loose Pulleys	4 × 1½	ins.	
Max. distance under drill	...	12	"
Diam. of Spindle	...	1½	"
Feed of Spindle	...	3½	"
Size of Table	...	10 × 12	"
Total Height	...	36	"

Prices :

Type E.	...	...	£9 5 0
Type C.	...	...	£11 5 0
Type D.	...	...	£16 0 0

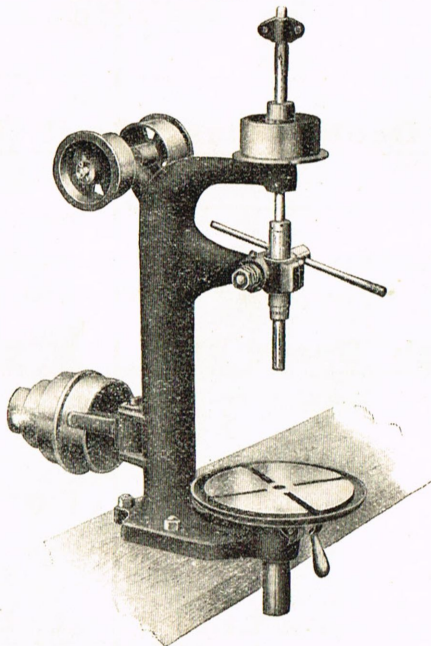
Pillar for Type E. £2 10 0



If
supplied
separate,
price,
£3 3 6

Overhead Gear,
for Type C.

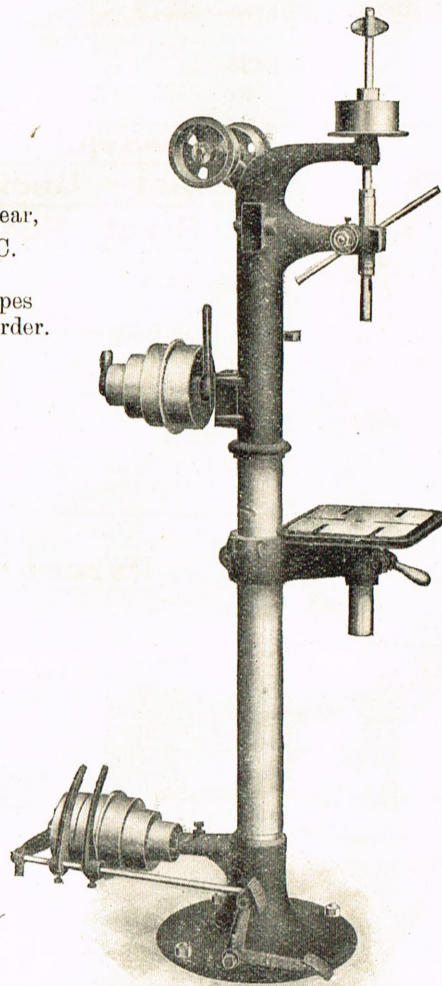
Also for Types
A and B to order.



Type C. With Overhead Gear.

SPECIFICATION :
(Type C and D.)

Drills to centre of	...	...	12 ins.	Feed of Spindle	...	3½ ins.
Diam. of Fast and Loose Pulleys	6 × 1¾	ins.		Diam. of Table	...	10¼ "
Max. distance under drill, Type D.	34	"		" of Pillar	...	3½ "
" " " " Type C.	9½	"		Total Height, Type D.	66¼	"
Diam. of Spindle	...	...	1½ "	" " Type C.	32¼	"



Type D.

Best Quality Sheffield Made Engineers' Ratchet Braces.

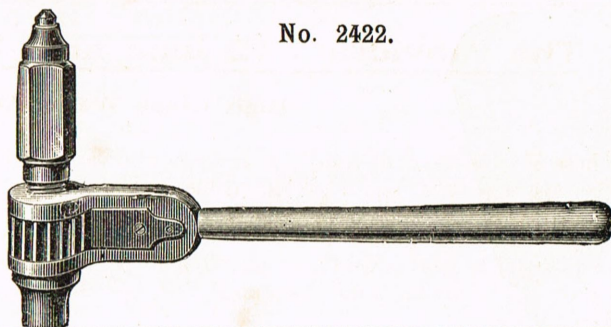
No. 2422.

10	12	14	16	18	20 in.
24/-	24/-	28/-	32/-	36/-	40/- each.

C.S. Drills for same.

Assorted to 1 in. 22/- per doz., 2/- each.

Assorted 1½ in. to 1½ in. 28/- „ „ 2/6 „



Handy Motor Ratchet Brace.



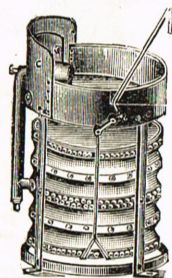
This Ratchet Brace is fitted with Two Centre Screws; the shorter leaves the Head of Brace 2¼ in. across; the longer increases the Head to 3¼ in. across. The Tool is designed for use in narrow and cramped spaces, and by use of the longer centre is suitable for all general drilling connected with Motor Car Repairs, etc. The Square Hole takes Morse Bit Stock Drills.

No. 2424.

No. 2424. Price, 21/6 each.

No. 2425. Best C.S. Drills, Ordinary Type, assorted to ½ in., 9/- per doz.

"Improved Single Blast" Deck or Rivet Forge.

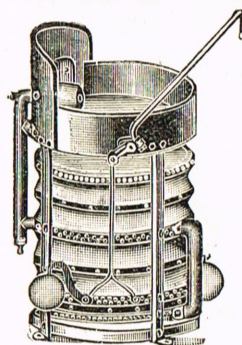


No. 2429. This Forge is made specially for Ship and Bridge Builders, Boiler and Girder Makers, Dockyards, etc., being strong, very portable, and cheap.

No. 5B. 20 in. Pans 30 in. high, 18 in. Cir. Bellows, 115/-

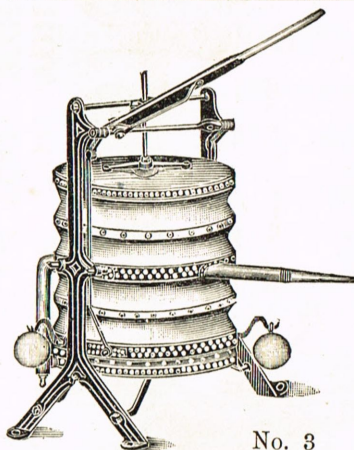
No. 5D. 24 in. Pans 32 in. high, 22 in. Cir. Bellows, 150/-

"Patent Double Blast" Deck or Rivet Forge.



No. 2431. This is an extra strong Forge, fitted with Circular Double Blast Bellows, being condensed and powerful, suitable for Engineering, Dockyards, Railways, etc. NOTE.—Price includes Weights. No. 7D 24 in. Pans, 36 in. high, 22 in. Double Blast Bellows, - £15 10 0

Patent Double-Blast Smith's Circular Bellows.



No. 3

No. 2437.

Mounted in Iron Frame complete.

They stand in half the space of Long-shaped Bellows.

Every stroke of the lever produces a double quantity and force of blast.

They effect a positive saving of 20 per cent. in fuel.

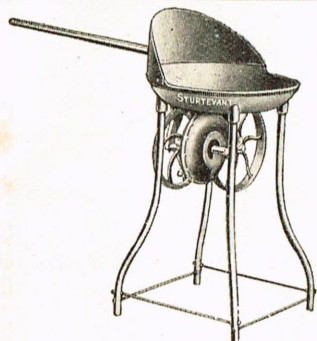
Iron or steel is brought to a welding state in two-thirds the usual time.

They are fitted up complete ready for work, with a Flexible Pipe and a Portable Lever, which allows them to be used in almost any position.

Best Warranted Quality.

26	28	30
£17 10 0	£19 10 0	£22 10 0

Sturtevant Forges.



These Forges are well adapted for all light work in Tool, Cycle and Motor Car Shops, and Manual Training Schools.

Size A1, as Illustration. Height of Pan, 34½ in. Diameter, 21 in. Weight, 117lbs.

Price, £9 0 0

Size A2, Similar Forge but fitted with Open Hood. Weight, 127 lbs.

Price, £10 10 0

A.1 type Portable Forge with hand geared Blast Fan.

Smiths' Bellows, for Export.

Improved Patent Reversible Pipe.

No. 2441. Nos. 1 and 2.

By reversing the pipe and packing the gudgeons and lifting hook securely inside it (as shown in the drawing on right) these bellows contain about one-half the shipping measurement of ordinary bellows, whilst still retaining their full capacities.

Can be supplied with ordinary fixed pipe at exactly same prices.
These Bellows are best quality, extra leathered and double nailed.

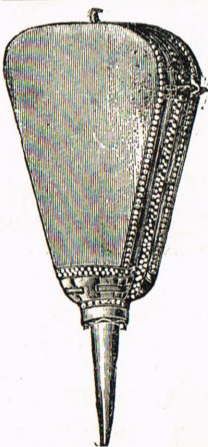
We can supply cheaper qualities if desired, but do not recommend them, as the greater durability of the best quality more than compensates for their small extra cost.

Illustration No. 2 shows Bellows as packed for Export.

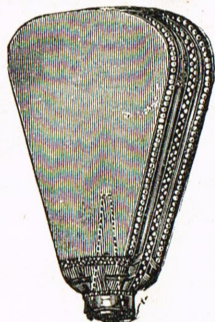
No. 2441. Best Quality—

Sizes	24	26	28	30	32	34	36 in.
Price	135/-	150/-	165/-	190/-	210/-	260/-	320/- ea.

All Bellows
Carriage Forward.



No. 1.



No. 2.

No. 2442.

Combination Brazier and Forge.

This Forge is constructed specially for the Cycle, Motor, and other trades requiring a Brazing Hearth, which can also be used as an ordinary Forge for repairing Tools, etc.

It is fitted up on a Bent Angle Iron Frame, which makes it thoroughly rigid.

The Treadle Bar is made in one solid piece, and will always pedal square, whether it is used at the ends or centre of footboard.

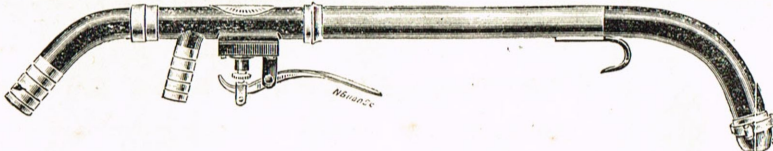
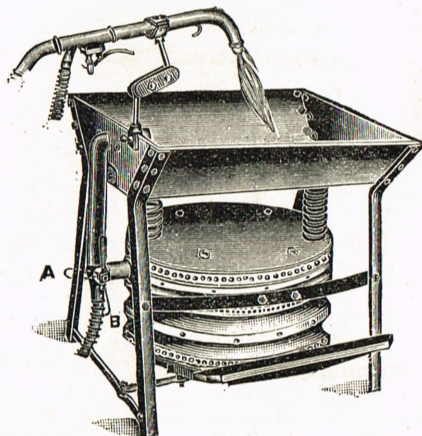
There is only one cock to move, and the key is a fixture.

It can be used for bottom heat at the same time as blowpipe is in use, thus saving both time and gas.

We are now offering this Brazier and Forge fitted complete in every detail ready for use at an inclusive price and without any extras whatever, exactly as illustrated. Together with this Forge, a best quality Lever Blowpipe and Patent Blowpipe Holder is supplied, and for connecting the blowpipe to the bellows and gas supply, two lengths of Flexible Metallic Tubing with all connections is included.

Best Quality Bellows having Protected Top.

No. 2442. Nos.	...	25c.	25E.
Diameter of Bellows	...	20	24 in.
Complete as described	...	£18 0 0	£22 10 0 each. F.O.B.



Patent Lever Blowpipe.

Improved Pattern.

No. 2445.

This is a thoroughly good Blowpipe, and is capable of doing any Brazing required, from a small cycle repair job to heavy engineering work. The valve regulates the gas to a nicety.

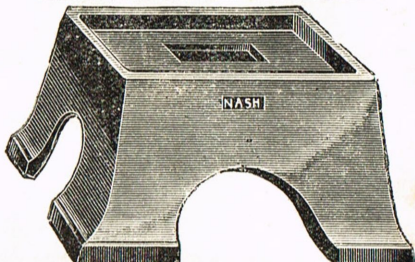
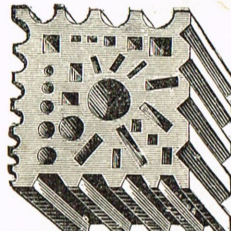
Sizes	...	3/4	7/8	1	1 1/8	1 1/4 in. Barrel.
Prices	...	35/-	38/6	45/-	50/-	57/6 each.

Patent Blowpipe Holder fitting either size. Price, 20/- each.

Smiths' Anvils.

Swage Blocks.

Cast Iron Stands.



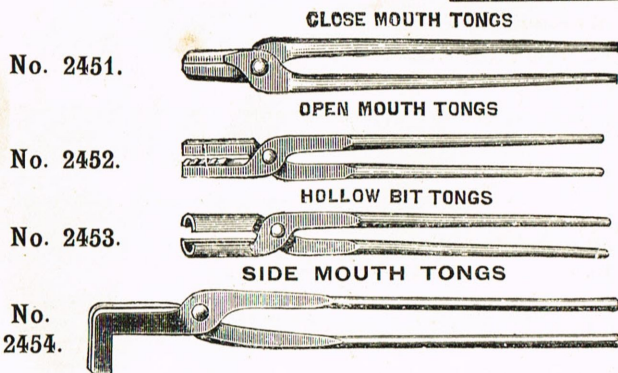
No. 2475. Best Warranted Anvils.
20 30 40 56 84 lb.
50/- 52/6 55/- 57/6 75/- ea.
Anvils over 84 lb., 100/- per cwt.

No. 2476. Cast Iron Swage Blocks.
11 x 11 in. 38/6 ea. Stands, 54/- ea.
13 „ 13 „ 52/6 „ „ 67/6 „
16 „ 16 „ 83/6 „ „ 83/6 „
18 „ 18 x 6 in. 108/- „ „ 110/- „
20 „ 20 „ 7 „ 157/6 „ „ 130/- „

No. 2477. For Anvils or Swage Blocks.
The size of bottom of Anvil or Swage Block should be stated when ordering.
Price, 36/- per cwt.

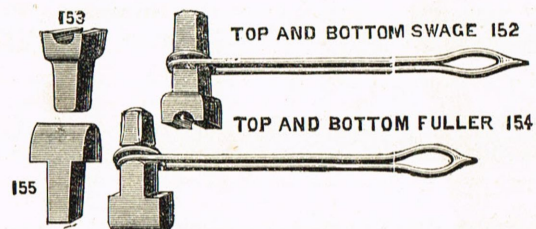
All Goods are Carriage Forward.

Smiths' Anvil Tools.



Prices of above Patterns.

Length ...	18	20	22	24 in.
Prices, either Nos. 2451, 2452, or 2453	3/9	4/6	5/6	6/6 Pair.
No. 2454 ...	4/-	4/9	5/9	6/9 „

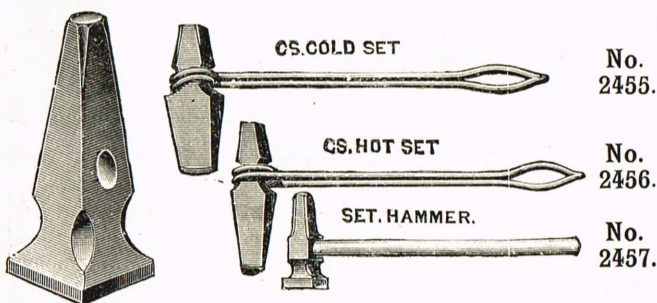


No. 2460. Top and Bottom Swages.

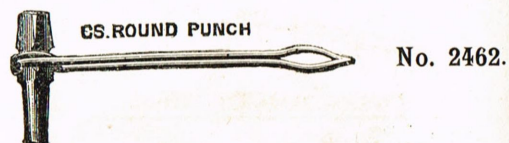
$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
13/-	14/-	15/-	16/-	17/-	18/-	20/- per pr.

No. 2461. Top and Bottom Fullers.

$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
13/-	14/-	15/-	16/-	17/-	18/-	20/- per pr.

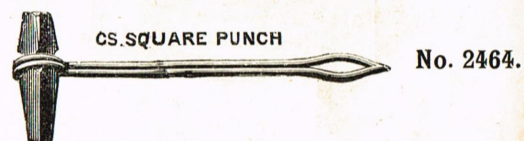


- No. 2459.
- No. 2455. C.S. Cold Sets, Rodded, 8/- each.
- „ 2456. C.S. Hot Sets, Rodded, 8/- each.
- „ 2457. C.S. Set Hammers, Handled, 9/6 each.
- „ 2458. Ditto Rodded, 8/- each.
- „ 2459. C.S. Flatteners, Handled. About 2 in. square in face, 9/6 each.



C.S. Round Punches.

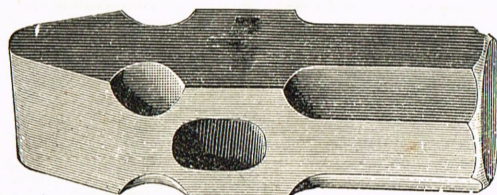
$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
No. 2462. Rodded	5/3	6/-	6/6	7/-	8/-	9/- 10/- ea.



C.S. Square Punches.

$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1 in.
No. 2464. Rodded	5/6	6/6	7/-	7/6	8/6	9/6 10/6 ea.
No. 2466.	C.S. Hardies for use in Anvils, 7/6 each.					

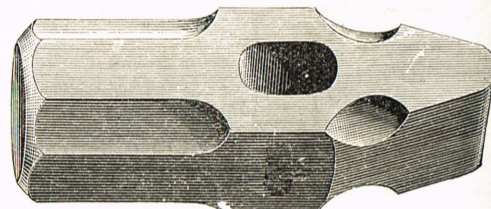
Best Cast Steel Sledge and Engineers' Hammers.



No. 2480 A.

No. 2480. Best Cast Steel Sledge Hammers, 5 lb. and over, either pattern A, B, or C, -/9 per lb.

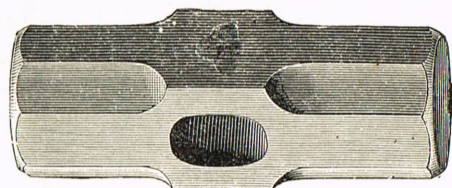
No. 2481. Best Cast Steel Engineers' Hammers, either Ball, Straight, or Cross Pane Heads, 6, 8, 12, or 16 oz., 1/9 each; 1 1/4 lb. and over, 1/8 per lb.



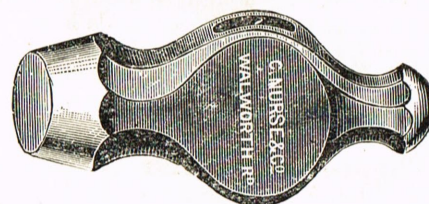
No. 2480 C.

No. 2482. 36 in. Best Sledge Hammer Handles, 1/6 each.

No. 2483. Engineers' Hammer Handles, 12 in. -/5; 14 in. -/5; 16 in. -/6; 18 in. -/7; 20 in. -/8 each.

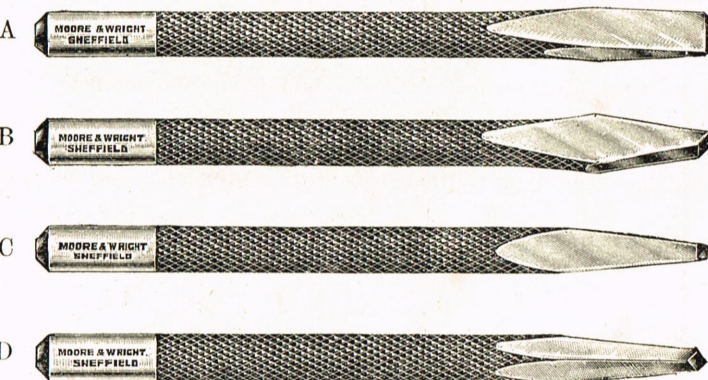


No. 2480 B.



No. 2481.

Cold Chisels for Model Makers and Engineers.

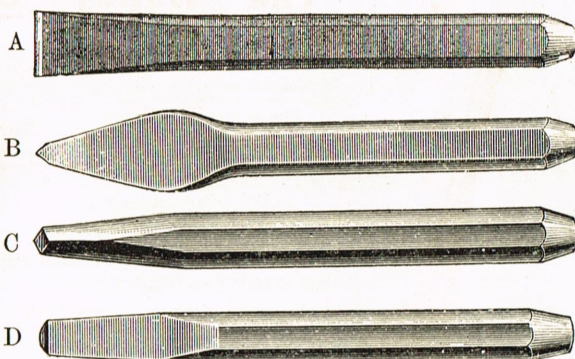


No. 2485.

These superior finished Chisels are made from "Mooral" Alloy steel. It is ideal for Chisels. You will never use an ordinary steel chisel again after you have had one of these, not if you can help it. Nicely knurled and handy.

1/4 in. diameter, any shape shown above, Length 4 in.	-/8 ea.
1/8 in. diameter, any shape shown above, Length 4 in.	4 1/2 "
3/8 in. diameter, any shape shown above, Length 4 in.	5 1/2 "
1/2 in. diameter, any shape shown above, Length 4 in.	6 1/2 "

Best Cast Steel Cold Chisels.



No. 2484 1/2.

Length	6	8	10	12	14	16 in.
1/2 in. Steel	-/11	1/2	1/5	1/7	1/9	2/- ea.
5/8 in. " "	1/1	1/3	1/6	1/9	2/-	2/3 "
3/4 in. " "	1/4	1/7	2/-	2/3	2/6	2/9 "
1 in. " "	—	2/6	3/3	3/9	4/6	5/3 "

18 to 24 by 5/8 in., and stouter, 1/9 per lb.
Patterns B, C, and D stocked up to 10 in. only.



No. 2490.

Cast Head and Body with Steel Screw.

No.	To lift tons.	Height when down.	Price.
0	1	9 in.	11/-
1	1 1/2	12 "	12/9
2	2	15 "	17/-
2 1/2	3	16 1/2 "	18/9
3	4	18 "	22/-
4	5	21 "	26/9
5	6	24 "	31/6
6	8	24 "	37/6
7	10	24 "	44/6

Extra Strong Short Lift Jack.

Malleable Body with Steel Screw.

No. 2493.

Height when down	...	9 in.
Weight	...	16 lb.
Diameter of Screw	...	2 in.

Tested up to 20 tons.

Price, 26/6



Phipps' Patent Lift, Pull, Push, and Cramp Jack.

For Straining Fencing Wire, Rope, or Chains.

Will Clamp Iron and Steel Plates, Pipe Flanges, etc., for Boring or Drilling.

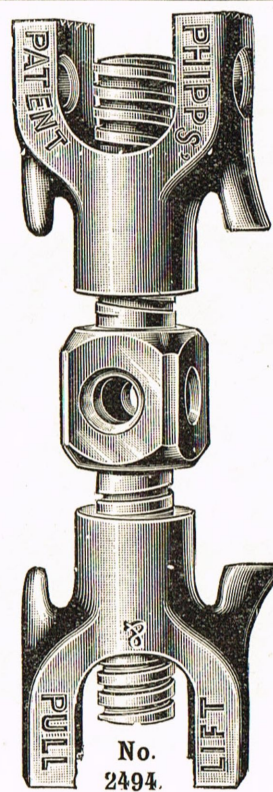
These extremely useful tools will be found most handy for a thousand purposes, are very strong and well fitted, and possess great power. The centre block and screws are a solid forging, with right and left square thread. The heads are malleable.

The first two sizes weight 3 lb. and 4 lb. respectively, and should form part of every workman's kit to enable him to tackle heavy weights, single-handed, with ease.

They will CRAMP and hold many articles for boring or drilling, and are also most handy for straining fencing wire, rope, or chains.

Numerous testimonials confirm the advantages claimed for this Lift, Pull, Push, and Cramp Jack.

Height in in. when down	...	6	8	10	12	14	16	18	20 in.
Diameter of Screw	...	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2 "
Weight	...	1	1	1 1/2	2	4	6	8	10 tons.
Price	...	3	4	9	14	21	34	46	68 lb.
	...	16/6	16/6	21/-	26/-	36/6	46/-	56/6	77/-



No. 2494.

The "Handy" Shearing Machine.

No. 2488.

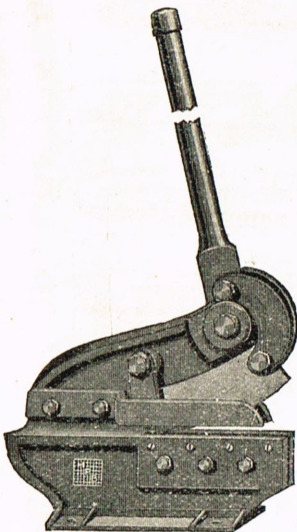
Little strength required to operate.

The best quality toughened cast steel, skilled workmen, and modern machinery have combined to produce this tool.

Capacity Guaranteed.

ADVANTAGES.—Sheet Metal any length or width can be cut. Adjustable bottom knife.

All parts interchangeable.



Stock Sizes.	Nos.	...	...	...	...	1	2	3
Will cut Sheet Metal up to	...	...	...	...	...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ in.
" Flat Iron up to	...	...	...	...	...	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$ "
" Round and Square up to	...	...	...	...	...	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{6}$ "
Length of Blades	...	...	...	...	...	$4\frac{3}{4}$	$7\frac{7}{8}$	$8\frac{1}{4}$ "
Approximate Weight	...	...	...	...	...	30	45	66 lb.
Price	...	...	...	...	...	95/-	154/-	190/- each.
Extra Blades	...	...	...	...	...	20/6	36/-	44/- per pair.

The "Handy" Punching Bear.

As supplied to the Admiralty.

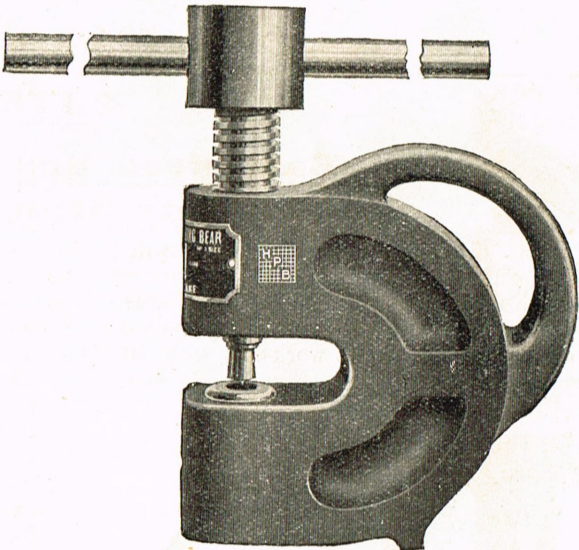
No. 2489.

GUARANTEE.

Every Machine made of best toughened Cast Steel and to Punch Holes up to its listed capacity.

ADVANTAGES.

Light to carry. Punches parallel holes. All parts interchangeable. Punches Holes without a Burr.



Stock Sizes.

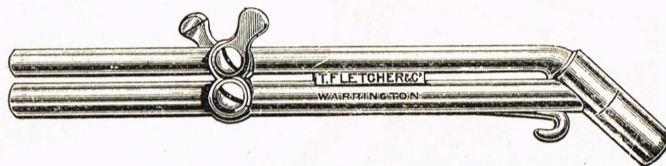
Size.	Range.	Capacity.	Distance from Centre of Punch to Back of Gap.	Approximate Weight.	Extras.		Price, Complete.
					Punches.	Dies.	
No. 0	$\frac{1}{8}$ to $\frac{1}{2}$ in. diam. holes	$\frac{1}{8}$ to $\frac{1}{4}$ in. through $\frac{1}{4}$ in. iron plate $\frac{3}{16}$ in. through $\frac{3}{16}$ in. iron plate $\frac{1}{2}$ " " " " " "	1 in.	4 lb.	3/9 Interchangeable 6/3	6/3	58/-
No. 1	$\frac{1}{8}$ to $\frac{1}{2}$ in. diam. holes	$\frac{1}{8}$ to $\frac{5}{16}$ in. through $\frac{1}{4}$ in. iron plate $\frac{3}{16}$ in. through $\frac{3}{16}$ in. iron plate $\frac{1}{2}$ " " " " " "	$1\frac{3}{4}$ "	$7\frac{1}{2}$ "			75/-
No. 2	$\frac{1}{8}$ to $\frac{3}{4}$ in. diam. holes	$\frac{1}{2}$ " " " " " " $\frac{5}{8}$ " " " " " " $\frac{3}{4}$ " " " " " "	$1\frac{1}{2}$ "	$22\frac{1}{2}$ "	5/6 Interchangeable 8/9	8/9	110/-
No. 2A	$\frac{1}{8}$ to $\frac{3}{4}$ in. diam. holes	$\frac{1}{2}$ " " " " " " $\frac{5}{8}$ " " " " " " $\frac{3}{4}$ " " " " " "	$2\frac{1}{2}$ "	20 "			110/-
No. 3	$\frac{1}{8}$ to $\frac{3}{4}$ in. round and shaped holes	$\frac{1}{2}$ " " " " " " $\frac{5}{8}$ " " " " " " $\frac{3}{4}$ " " " " " "	$2\frac{1}{2}$ "	20 "	5/6 Interchangeable 8/9	8/9	132/-
No. 4	$\frac{1}{8}$ to $\frac{3}{4}$ in. round and shaped holes	$\frac{1}{2}$ " " " " " " $\frac{5}{8}$ " " " " " " $\frac{3}{4}$ " " " " " "	$1\frac{1}{2}$ "	$22\frac{1}{2}$ "			132/-

All Machines packed in Case complete with Tommy and one Punch and Die. Shoes for Fixing Nos. 2, 2a, 3, and 4, price, 20/- each. Punches and Dies are Standardised and all sizes in $\frac{3}{32}$ inch diameters can be obtained from Stock. Inquiries solicited for Special Punches and Dies for Machines of every description. For Punching small Angles the Machines are supplied with ground-off faces. These Machines are suitable for Punching out Rivets.

The power of any blowpipe, with sufficient gas supply, depends entirely on the pressure of air used. Quick, short heats cannot be obtained with a fan or smiths' bellows, and an air pressure of not less than 1 lb. per square inch is strongly recommended when it can possibly be obtained. With an air pressure of 1 lb. per square inch the $\frac{3}{8}$ in. size will braze up to the size of an ordinary latch key or $\frac{1}{2}$ in. brass tubing. The $\frac{1}{2}$ in. size, up to light bicycle frames or $\frac{3}{4}$ in. iron steam pipe. The $\frac{3}{4}$ in. size will braze the heaviest tricycle work or up to $1\frac{1}{2}$ in. iron steam tubing.

Improved Gas Blowpipes.

No. 2508.



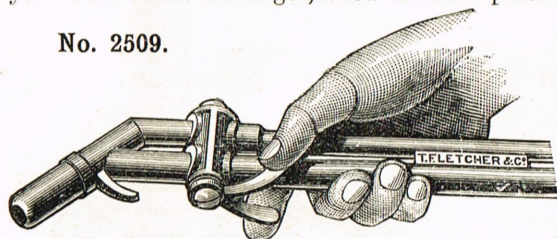
										PRICES.							
SIZES.										Length.		With Taps.			Without Taps.		
										£	s.	d.	£	s.	d.		
No. 2508.	8 C	No. 1.	$\frac{3}{8}$ in.	size for	$\frac{3}{8}$ in.	gas supply	...	10 $\frac{1}{4}$ in.	2	2	0	1	1	6	each.		
		" 2.	$\frac{1}{2}$ "	"	$\frac{1}{2}$ "	"	...	12 $\frac{1}{2}$ "	3	2	6	1	14	6	"		
		" 3.	$\frac{3}{4}$ "	"	$\frac{3}{4}$ "	"	...	19 "	6	3	6	3	16	0	"		
		" 4.	1 "	"	1 "	"	...	24 $\frac{1}{2}$ "	12	18	6	9	0	0	"		

Our Foot Blower, No. 3 size, will work the $\frac{3}{8}$ in. size Blowpipe at full power. The No. 5 size will work either of the three smaller sizes, and for the No. 4 size a Smiths' Bellows is required.

Automatic Blowpipe.

This will be found a simple and most efficient blowpipe for ordinary workshop use. Both gas and air are controlled by a movement of the finger, a few minutes' practice giving perfect mastery over the character of the flame.

No. 2509.



C 10. Small size, for fine, light work, taking air jets not exceeding $\frac{1}{8}$ in. bore. Price, **42/-** The same blowpipe on stand, **64/-** Stock size, $8\frac{1}{2}$ in. long. This requires Foot Blower No. 3 size.

C 40. Medium size, for small workshop use, key brazing, copper gas pipe up to $\frac{3}{4}$ in., etc., taking air jets not exceeding $\frac{1}{4}$ in. bore. Price, **59/6** The same blowpipe on stand, **86/-** Stock size, $12\frac{1}{2}$ in. long. This requires Foot Blower No. 5 size, and $\frac{1}{2}$ in. clear bore gas supply pipe.

C 80. Large size Injector pattern, will braze $\frac{1}{2}$ in. thick flange on $1\frac{1}{2}$ in. wrought iron pipe and copper cylinders up to 2 lb. square foot. Price, **77/6**. Stock size, $16\frac{1}{2}$ in. long. This requires at least $\frac{3}{4}$ in. clear bore gas supply, and Foot Blower No. 5 size. The same blowpipe on stand, **105/-**

The number gives approximately the gas consumption per hour at full power.

These are adjusted to work only with our Foot Blowers, or others giving an air pressure of 1 lb. to $1\frac{1}{4}$ lb. square inch.

Gas Forge.

This simple arrangement is the only system by which steel tools can be forged without injury by the use of gas. It will be found a perfect arrangement for small odd forgings. It is perfectly clean, no nuisance either in lighting or use, and is always ready for instant use. Starting all cold, a slide rest tool can be repaired or shaped in two minutes. Size of hearth, 14 by 16½ in.

The Blower No. 5, 9c, is F. R. & Co.'s Foot Blower, fitted with Spring Reservoir in place of the India-rubber Disc, and fitting it for the roughest work.

It does not give so steady and powerful a blast as Fig. 9, or 9b, but it is adapted for forge or blowpipe use, and, not being fastened to the forge, both blowpipe and blower can be taken away and used separately for brazing, etc.

The Blower, Fig. 9b, No. 5, is the best, if used with reasonable care. Fig. 9 is liable to damage with sparks, etc.

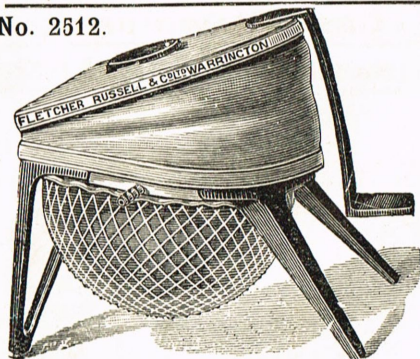
This can now be supplied either as engraved or with the blowpipe arranged to give a top heat on the coke.

Instructions.—Fill the hearth with coke, broken small (cinders may be used, but are not so clean); light the gas at the blowpipe and use the blower. In a minute turn the gas out, and then turn on again a very small quantity, not enough to burn at the blowpipe jet, but sufficient to visibly brighten the fire. When the heat is obtained, the forge may be worked with or without gas, but a little gas doubles the power. The gas must not burn at the blowpipe jet except for the first minute.

The Blowpipe is the ordinary pattern, Fig. 8c, and can be removed for use as a blowpipe, making the whole apparatus complete for all small heating and brazing work.

			PRICES.			No. 2513.					
			£	s.	d.				£	s.	d.
Blower only, No. 5, 9c	...	...	7	0	0	Hearth	...	...	2	3	0
Ditto, " 9B	...	...	6	0	0	Tools, as shown in Engraving	...	...	14	6	0
Blowpipe No. C 40	...	...	2	19	6	6 ft. Flexible Tubing	...	...	15	0	0
Apparatus complete as Illustration			...			£13 10 0					

No. 2512.



Improved Pattern.

No. 2512. Prices: No. 3, 102/6; No. 5, 120/- each.

This pattern, by reversing the position of the blower, reduces the risk of mechanical injury to the disc, and does away with the necessity for a wood casing or protection. It also prevents the valve from picking up dirt from the floor, keeping the whole arrangement cleaner and the valves in more perfect order. Sizes as Nos. 2510 and 2511.

Extra Rubber Discs for No. 3, 13/- per pair; Nets, 3/9

For No. 5, 16/- per pair. Nets, 5/- (2 rubber discs used on each blower).

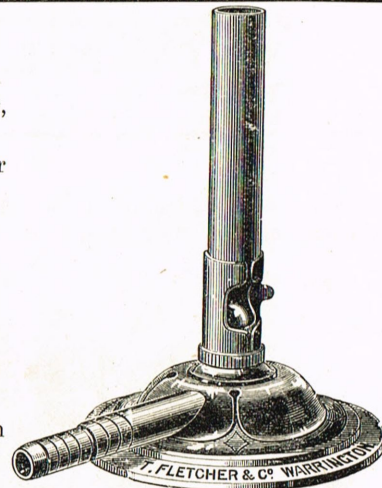
Improved Bunsen Burners.

These are correctly proportioned in every detail, and of the full theoretical power, working up to their maximum calculated duty in every case.

The number gives approximately the maximum gas consumption in cubic feet per hour at $\frac{1}{10}$ pressure, as with all our burners.

Nos.	1	2	3	5	6	8	12
Size of Tube outside ...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
Height without Stand	—	—	3	$3\frac{3}{8}$	4	5	$6\frac{3}{16}$ "
Price each, without Stand	1/6	1/9	2/9	3/-	3/6	4/3	6/-
„ on Brass Stand ...	7/-	7/3	10/6	11/-	11/6	14/-	16/6
„ on Cast Iron Stand	—	—	6/-	6/6	7/-	7/6	10/-

If fitted with Screw Cone Adjustment for Gas, 4/6 extra; this is far more exact than any tap can possibly be made.



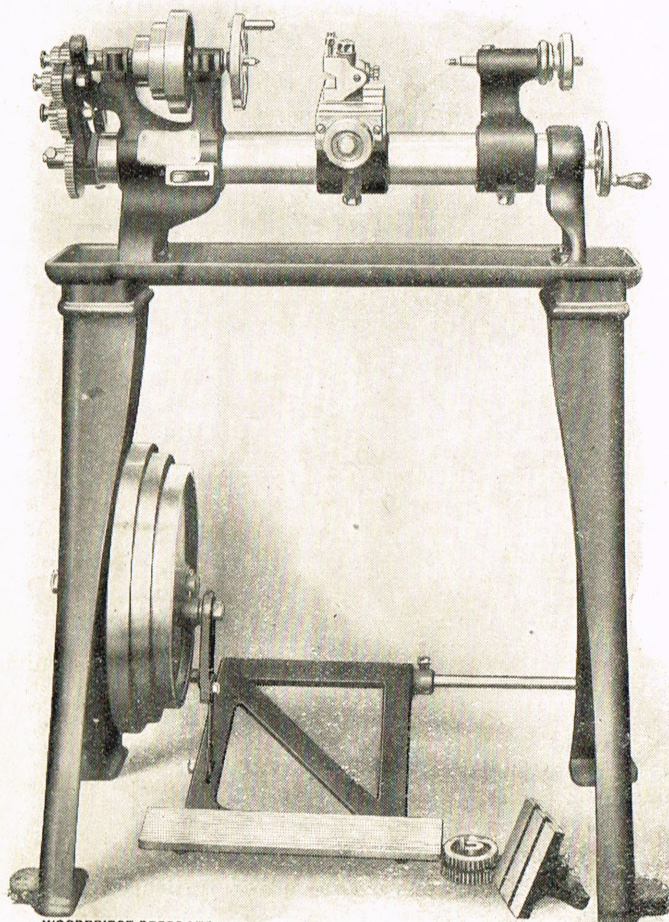
Drummond Brothers' (Ltd.) "A"-Type New Model Makers' "Precision" Lathe.

DIMENSIONS—

Length over all	2 ft. 11 ins.
Breadth	12 ins.
Approximate weight	105 lbs.
Length of bed	2 ft. 4 ins.
Diameter of bed	3 ins.
Height of centres	4 ins.
Diameter of work admitted over bed	8 ins.
„ „ over saddle	6 ins.
Length between centres	$11\frac{1}{4}$ ins.
Diameter of mandrel nose	$\frac{3}{4}$ in.
Thread on nose, stand'd Whitworth	10 per in.
Size of centre hole	No. 1 Morse Taper
Diameter of speed cone	6 ins., $4\frac{1}{2}$ ins.
Breadth of belt	1 in.
Dimensions of working surface of	
milling table	4 ins. x 6 ins.
„ of sliding milling table	$6\frac{1}{4}$ ins. x $3\frac{1}{2}$ ins.

Price :

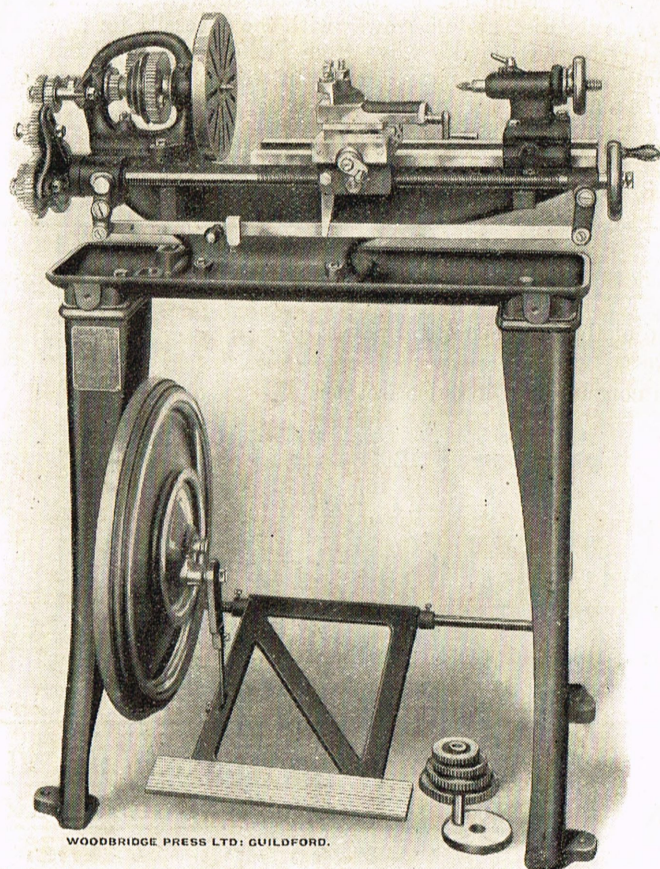
	£	s.	d.
4 in. Bench Lathe	13	15	0
4 in. Bench Lathe with Foot Motor ...	16	10	0
4 in. Bench Lathe with Countershaft ...	17	5	0
4 in. Bench Lathe with both Foot Motor			
and Countershaft	21	0	0
4 in. Complete on Stand for Treadle Drive	20	10	0
4 in. Complete on Stand with Counter-			
shaft instead of Treadle motion ...	20	10	0
4 in. on Stand with Treadle and separate			
Countershaft	24	10	0



WOODBRIDGE PRESS LTD: GUILDFORD.

Above prices are for Lathes, F.O.B., Works, Guildford. Packing Cases must be returned Carriage Paid within 7 days or will be charged £3. Lathes from London Stocks, 20/- extra.

Drummond Brothers' (Ltd.) New Design B-Type 3½ in. Centre Back Geared, Self-acting, Sliding, Boring, and Screw Cutting Lathe.



SPECIFICATION.

Heavy pattern bed with short gap mounted on cast iron tool tray and standards; back geared headstock with steel hollow mandrel bored from the solid, running in concentrically adjustable gun metal bearings (head can be set over for small taper chuck work, it is marked for centre zero and graduated to 10° each side), tailstock with steel barrel and square thread screw, set over arrangement for taper turning between centres. Dead true lock up to side as well as flat ways of bed by single lever action.

Self-acting, sliding and traversing saddle, fitted with slotted boring carriage and fully compound slide rest with steel square thread draw screws.

Steel square thread lead screw full length of bed fitted with hand and automatic throw-out action and fitted with hand wheel; set of change wheels, cutting all Whitworth threads from $\frac{1}{16}$ to 1 in., also fine threads.

Extra large face plate, driver plate, hand rest, tool steel coned centres and spanners; belt is also included with treadle Lathe.

All slides are hand scraped to surface plate, all gears cut from the solid.

DIMENSIONS.

Length over all	...	...	...	...	...	...	...	...	3 ft.
Breadth " "	...	...	...	...	...	...	...	...	1 ft. 9 ins.
Net weight	...	...	...	...	...	...	...	...	365 lbs.
Length of bed	...	...	...	...	...	...	...	...	2 ft. 6 ins.
Height of centres	...	...	...	...	...	...	...	...	3½ ins.
Diameter of work admitted in gap	...	...	...	...	...	...	...	...	9½ ins.
Breadth of work " " (measured from face plate)	...	...	...	...	...	...	...	...	2 ins.
Diameter of work over saddle	...	...	...	...	...	...	...	...	4¼ ins.
Length between centres	...	...	...	...	...	...	...	...	1 ft. 4 ins.
Diameter of mandrel nose	...	...	...	...	...	...	...	...	1 in.
Pitch	...	...	...	...	...	...	...	...	8 per in.
Size of centre hole	...	...	...	...	...	...	...	...	No. 1 Morse Taper.
Diameter of hole through mandrel	...	...	...	...	...	...	...	...	¾ in.
Diameter of speeds on cone	...	...	...	...	...	...	...	...	2½, 3½, 4½ ins.
" " fly wheel	...	...	...	...	...	...	...	...	19½, 20¼, 21 ins.
Weight of fly wheel	...	...	...	...	...	...	...	...	75 lbs.
Dimensions of boring or milling table	...	...	...	...	...	...	...	...	8 by 4¼ ins.
Diameter of fast and loose pulleys on countershaft	...	...	...	...	...	...	...	...	6 ins.
Speed countershaft should run	...	...	...	...	...	...	...	...	250 revs. per minute.

PRICE.

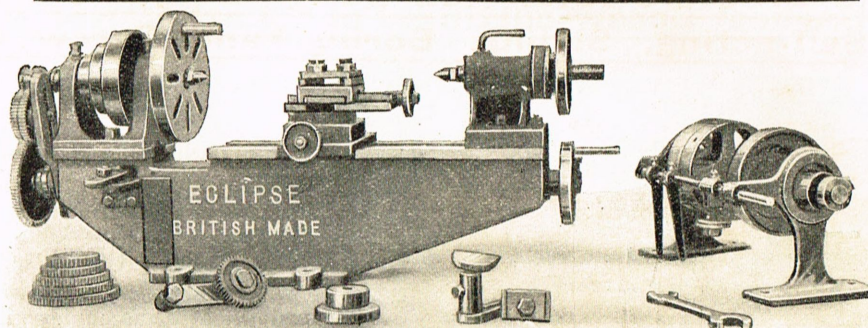
	£	s.	d.
3½ in. Lathe with Treadle motion	35	0	0
3½ in. Lathe with Countershaft instead of Treadle	35	0	0
3½ in. Lathe with both Treadle motion and Countershaft	40	0	0
3½ in. Bench Lathe without driving arrangement	27	0	0
3½ in. Bench Lathe with separate Countershaft	32	10	0

Wheel for cutting metric threads 8/6 extra on above prices.

This tool can be supplied also with direct connected electric motor. Quotations on receipt of particulars of current, voltage, etc.

Above prices are for Lathes F.O.R. at works. Packing Cases must be returned carriage paid to Guildford within 7 days or a charge of £3 will be made for same. Lathes from London stocks, 20/- extra.

"Eclipse" 4in. Screw Cutting Gap Lathe.



These Lathes are of good appearance and design and are of first class workmanship and construction throughout.

Bed.—Is a box section casting of strong design, accurately planed and scraped on bearing surfaces.

Headstock.—Has a hollow steel spindle running in parallel bearings. The thrust is taken on a phosphor bronze washer, and wear is taken up by lock nuts and washer. The Speed Cone is of large diameter and has three steps.

Tailstock.—Arranged to set over for turning tapers, and is fitted with steel barrel screw and simple locking arrangement.

Saddle and Compound Rest.—Are all fitted with adjustable strips for taking up wear. The swivel slide may be set to any angle.

Lead Screw.—Runs the full length of bed and provided with hand knock-out and hand-wheel; set of nine change wheels, together with reversing bracket and wheel enabling screws to be cut right or left hand. All gears are machine cut.

Each Lathe is provided with Face Plate and Driver, Chuck Adaptor Plate, 2 Cast Steel Centres, Spanners, Countershaft, Hand Rest, Screw Cutting Table.

Height of Centres	4 in.	Width of Gap from Face Plate	2 in.
Length between Centres	15 "	Hole through Spindle	17/32 "
Length of Bed	2 ft. 6 "	Size of Centre Holes Morse Taper ...	No. 2
Length Overall	3 " 1 1/2 "	Spindle Nose (Whitworth Thread) ...	1 1/4 "
Breadth	12 "	Dia. of Speed Cones	6 in., 4 1/2 in., 3 "
Dia. of Work admitted over Bed ...	8 "	Breadth of Belt	1 "
" " " " in Gap	10 1/2 "	Dia. of Face Plate	8 "
Approx. Nett Weight with Countershaft, 196 lbs.		Price, £28 10 0	

The No. 6 Super Velox Bench Lathe and its Features.

(1920 Model).

Length of Bed, 24 in.

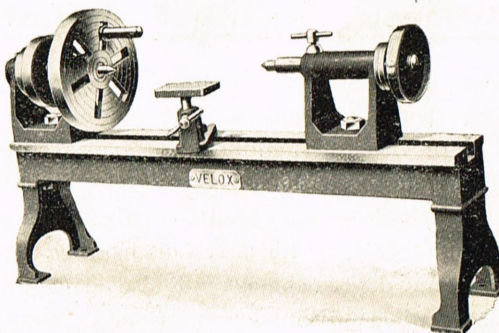
Centres, 3 1/4 in.

Weight: Packed, 60 lbs.

£6 6 0 Carriage Forward.

Packing Case, 8/6, Returnable, Carriage Paid.

High-Class Compound Swivelling Slide-Rest to Suit this Lathe, £5 10 0.



This Lathe has been designed on the best British and Continental lines, combining a number of improvements suggested by the users of small lathes that are not so adaptable. It will readily be seen by the illustration that the lines on which this machine is designed leaves very little room for improvement in making the model maker perfectly At Home with his odd or even repetition jobs.

This lathe will do all that any other plain lathe of its size will do and a great deal more than most. For hand turning in any metals it is unsurpassed, and will outlast any similar machine on the market. When used with slide-rest it will never be found to fail, no matter how intricate the job may seem.

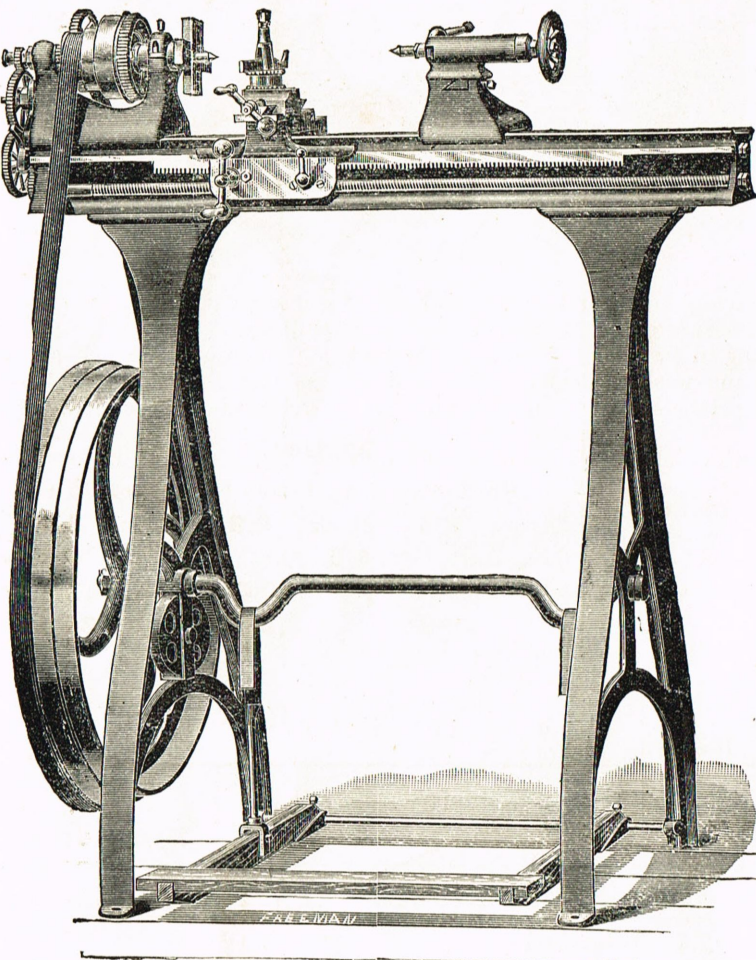
The material and workmanship are of the best, therefore we have no fear in giving the Guarantee which is sent out with all our machines.

The following are a few Super Velox features:—

Good 2-Speed Drive for flat or round belt, according to requirements, Large Adjustable Bearings, Adjustable Ball Thrust, Hollow Mandrel, No. 1 Morse Centres, 3/4 Standard Whitworth Nose, Large Slotted Face Plate, 3/4 Hollow Sliding Barrel to Tail-stock, Large Hand Feed Wheel and Locking Device. Supplied with one pair of Tool Steel Centres and Metal Rest.

Barnes' Screw-cutting Foot Lathe, No. 4 $\frac{1}{2}$.

With English Treadle.



No. 2528

This Lathe is a size brought out to meet the demand for a small Screw-cutting Lathe. It is nearly equal in capacity to the old No. 5. It is back-geared, feeds either to the right or left, and cuts screws right or left without change of gearing.

The carriage is adjustable for taper boring or ball turning. It is thoroughly gibbed for taking up all wear. The tail-stock has side movement to adjust centres for turning tapers. The head-stock has a hollow spindle, allowing rods up to $\frac{3}{8}$ in. to pass through the head and be held in a chuck. All the gearing is cut from solid metal and runs smoothly. All parts are made of steel where it is most suitable for the purpose. A large face-plate is now included, and also a centre rest.

It will cut all ordinary threads from 5 to 40 and odd threads up to 154. It has $4\frac{1}{2}$ in. centres, and will turn work 25 in. long. The cone pulleys are $2\frac{1}{2}$, $3\frac{1}{2}$, and $4\frac{1}{2}$ in., giving a good variety of speed for heavy or light work. When preferred, we can supply a countershaft in place of the foot power at same price.

Weight of Lathe, 270 lb.

PRICES.

	£	s.	d.
Lathe, with Compound Rest ($4\frac{1}{2}$ in. Centres. 42 in. Bed) ...	65	0	0
Countershaft, extra (Pulleys 7 in. by $1\frac{1}{2}$ in., speed 250 revs.) ...	10	0	0
Follower Rest ...	1	17	6
Set of 8 Tools to suit Tool Post ...	1	15	0
Hand Rest for Wood Turning ...	1	17	6

Net and Carriage Forward.

Barnes' Screw-cutting Foot Lathe, No. 5.

No. 5 Lathe is $5\frac{1}{2}$ in. centres and $3\frac{1}{4}$ in. over the tool carriage, and is 34 in. between centres. It is thoroughly and substantially built. The headstock has a hollow steel spindle, with a $1\frac{1}{2}$ in. hole through its entire length. The boxes are accurately fitted to the spindle, with provision to keep them true and take up wear. The tail-stock can be readily set at any desired point, or taken altogether from the Lathe bed, thus leaving it free for face-plate or chuck work. It can also be set over for turning tapers. The spindles of both head and tail stocks are of steel, with positively true taper holes for the reception of the centres, and the tail-stock centre is self-discharging. The tool carriage on the Lathe swivels so that the tool can be set to the work at any desired angle, and it also adapts the Lathe for taper boring. All the works are securely protected from chips and dirt, thus ensuring long wear and durability to the most costly and vital parts of the Lathe. It is indexed for threads 4 to 40, and the change gears furnished can be combined for many other threads. As a right or left Screw-cutting Lathe it is complete. All the gearing is cut from solid metal in the best machinery known for gear cutting, and is as true and noiseless as possible. We can supply with countershaft instead of foot power at the same price.

No. 2529. Price of Lathe with Compound Rest, £85 0 0 Weight of Lathe, 385 lb. F.O.R.

Set of Eight Tools for Metal, 40/- extra.

Countershafts for above, when supplied in addition to Treadle, £10 0 0

Either Hand Rests or Follower Rests for above, 40/- each.

C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

Improved Mercury Plumb Bobs.

No. 3615. The improvement consists in our patented device for fastening the string without a knot to tie or untie, simply by drawing it into the peculiarly slotted neck at the top, after unwinding the required length, when the bob will hang perfectly true.

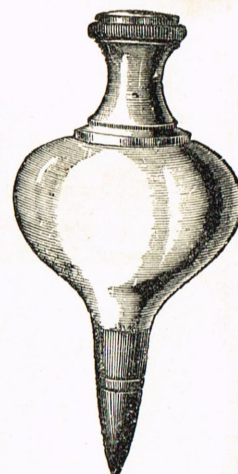
These plumb bobs are made from solid steel bored and filled with mercury. Noteworthy features are their great weight in proportion to size, low centre of gravity, small diameter, hardened and ground points, knurling on the body and the simple and effective device at top for fastening end of line after winding up. Nickel plated. Each is provided with a braided silk line.

PRICES.			
4 in. long,	$\frac{1}{2}$ in. dia.	3½ oz.	9/6
5 " "	$\frac{5}{8}$ " "	6 " "	12/9
5½ " "	$\frac{7}{8}$ " "	12 " "	15/9
6 " "	1 " "	16 " "	18/9

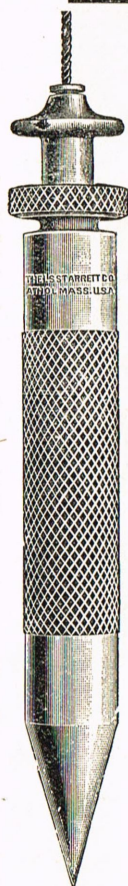
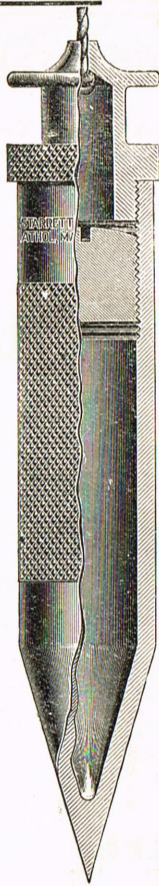
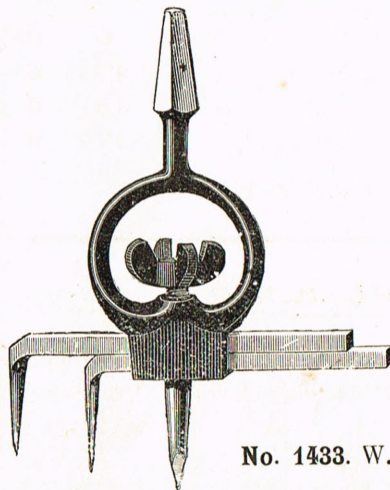
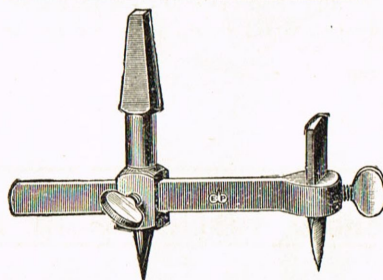
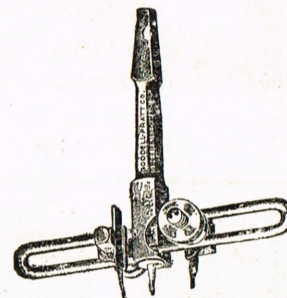
Steel Plumb Bobs.

No. 3616. The same in design as No. 3615, but made from solid steel, the mercury being omitted.

PRICES.			
4 in. long,	$\frac{1}{2}$ in. dia.	2¾ oz.	4/6
5 " "	$\frac{5}{8}$ " "	5 " "	6/9
5½ " "	$\frac{7}{8}$ " "	8½ " "	9/6
6 " "	1 " "	14½ " "	12/9

Plumb Bobs.**No. 1180.**

No. 1180. Brass Plumb Bobs, 1½ oz., 1/9; 2½ oz., 2/3; 3½ oz., 2/9; 4½ oz., 3/3; 6 oz., 3/9; 8 oz., 4/6; 10 oz., 5/9; 13 oz., 6/9; 16 oz., 8/3; 1¼ lb., 10/6; 1½ lb., 12/9; 2 lb., 16/6; 2½ lb., 20/-; 3 lb., 24/6; 4 lb., 31/- each.

**No. 3616.****No. 3615.****Washer Cutters.****No. 1433. W.****No. 1434 W.**Cut One-half Size. **No. 1436 W.**

No. 1433 W.	Improved Pattern Leather Washer Cutters	...	...	...	...	...	...	...	...	3/9 each.
No. 1434 W.	Single Washer Cutters, will cut up to 7 in. diameter, 5/-, or to 10 in., diameter	...	...	...	...	...	...	...	...	7/6 "
No. 1435 W.	Double Washer Cutters, will cut Washers up to 10 in. diameter	...	...	...	...	...	...	...	...	10/6 "
No. 1435 B.	Double Washer Cutters, complete with Brace Sweep, Cutting up to 11 in. diameter	...	...	...	...	...	...	...	...	15/- "
No. 1436 W.	This tool will cut circles up to 5½ in., out of leather, paper, rubber, or thin wood. It will cut the inner and outer circle at the same time, and can be used in any ordinary brace	...	...	...	...	...	...	...	...	10/6 "

Superior Polished Round Silver Steel Wire.

In 13 in. lengths, suitable for Taps, Drills, etc.

No. 1976 W.	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$ in.
	-/1	-/1½	-/2	-/3	-/4	-/5	-/7	-/9	-/11	1/-	1/3	1/9	2/3 per length.

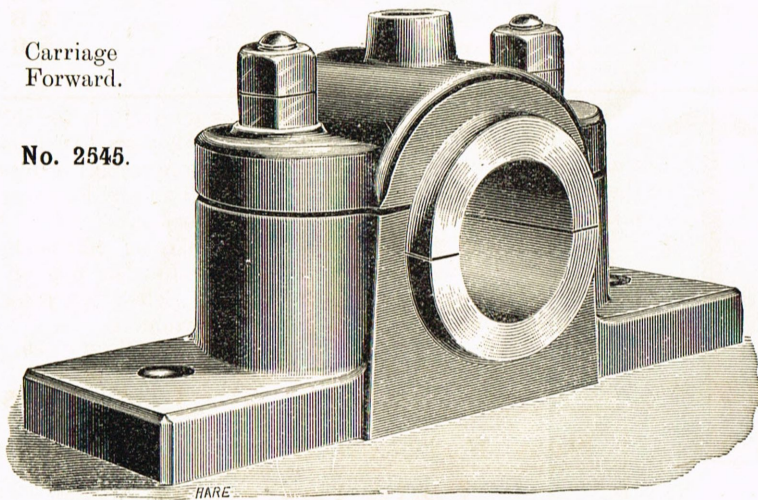
Best Quality Self-Hardening Steel.

No. 1977 W.	Prices for 3 ft. lengths	...	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in. square.
		2/6	3/9	5/6	8/-	10/6	14/-	20/-	28/-	

FOR LATEST CORRECTED PRICES SEE PREFACE.

Plummer Blocks.Octagonal Class.Carriage
Forward.

No. 2545.



These are good serviceable Plummer Blocks, and their cost is very low; they are made from first class materials, and have good work put into them. They are recommended for light work.

They are fitted with brasses top and bottom, bored and turned, and have hole drilled to receive lubricator.

Length of Brasses— $1\frac{1}{2}$ times Diameter of Bore.

Not planed on Sole.

Diameter of Bore	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 inch.
Length of Sole	$6\frac{1}{4}$	$7\frac{1}{4}$	$8\frac{1}{4}$	$9\frac{5}{16}$	10 "
Width of Sole	$1\frac{1}{16}$	$1\frac{3}{8}$	$1\frac{3}{4}$	$2\frac{1}{16}$	$2\frac{3}{8}$ "
Centres of Bolt Holes	$5\frac{1}{8}$	6	$6\frac{3}{4}$	$7\frac{3}{8}$	$8\frac{1}{4}$ "
Height to Centre	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$ "
Price Each ...	6/6	7/9	8/3	10/6	13/3
Diam. of Bore ...	$2\frac{1}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4 inch.
Length of Sole	$10\frac{3}{4}$	$11\frac{1}{2}$	$13\frac{1}{16}$	$14\frac{1}{2}$	16 "
Width of Sole ...	$2\frac{1}{16}$	3	$3\frac{5}{8}$	$4\frac{1}{4}$	$4\frac{7}{8}$ "
Centres of Bolt Holes	$8\frac{3}{4}$	$9\frac{3}{8}$	$10\frac{7}{8}$	12	$13\frac{1}{2}$ "
Height to Centre	3	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{3}{4}$ "
Price Each ...	17/9	23/6	35/6	53/-	75/-

Prices for Shafting Pulleys, Collars, Couplings, Hangers and Standards, will be quoted on receipt of specification.

Leather Belting.

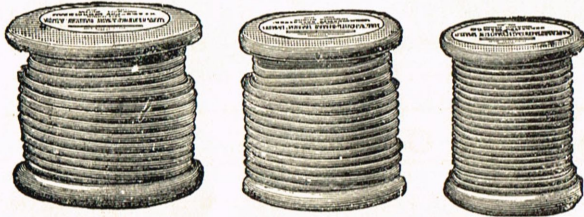
The following prices are for the best oak-tanned Leather Belting, manufactured from specially selected butts—of which the prime parts only are used, hemp-sewn and riveted. Thonged or copper-sewn to order.

No. 2553. Single Leather Belting.—

1 in., -/9; $1\frac{1}{4}$ in., 1/-; $1\frac{1}{2}$ in., 1/3; $1\frac{3}{4}$ in., 1/6; 2 in., 1/9; $2\frac{1}{4}$ in., 2/-; $2\frac{1}{2}$ in., 2/3; 3 in., 2/9; $3\frac{1}{2}$ in., 3/6; 4 in., 4/-; $4\frac{1}{2}$ in., 4/9; 5 in., 5/6; $5\frac{1}{2}$ in., 6/3; 6 in., 6/9 per foot.

No. 2554. Double Leather Belting.—

2 in., 3/6; $2\frac{1}{2}$ in., 4/6; 3 in., 5/6; $3\frac{1}{2}$ in., 6/6; 4 in., 7/6; $4\frac{1}{2}$ in., 8/9; 5 in., 10/-; $5\frac{1}{2}$ in., 11/-; 6 in., 12/- per foot.

Solid Round Leather Belting.

No. 2557. We guarantee the Belting to be made from best Oak Bark Tanned Butts. Stretching is reduced to a minimum.

Sizes	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{3}{8}$
Prices	-/7	-/8	-/10	1/2	1/4	2/6 per yd.

Gut Bands, and Hooks and Eyes for Gut Bands.

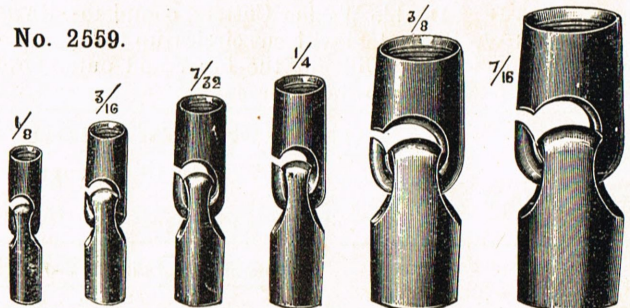
No. 2558. Gut Band, Best Quality:

$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$ in.
-/8	-/9	1/-	1/4	1/8	2/- per yard.
$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$		$\frac{1}{2}$ in.
2/4	3/6	4/6	6/6		8/6 per yard.

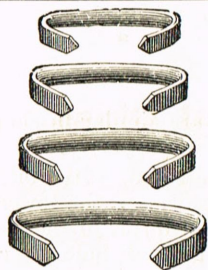
No. 2559. Hooks and Eyes for Gut Band:

$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$ in.
-/8	-/8	-/8	-/9	-/9	-/9 per pair.
$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$		$\frac{1}{2}$ in.
-/9	1/-	1/4	2/2		3/- per pair.

No. 2559.



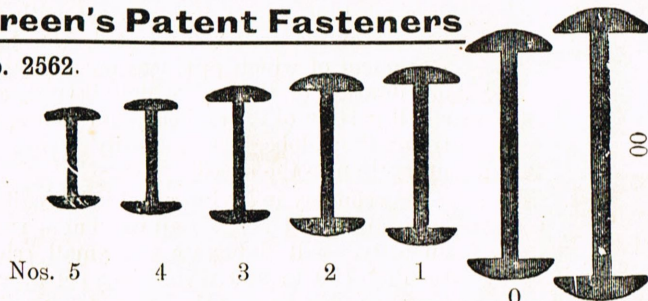
FOR LATEST CORRECTED PRICES SEE PREFACE.

American Patent Belt Fasteners.

			Per Hundred.			Per Hundred.
No. 15.	For Belts 1 to 1½ in.	...	-/8	No. 8.	For Belts 4 to 8 in.	... 1/6
" 14.	" " "	...	-/9	" 7.	" " "	... 2/-
" 13.	" " "	...	-/10	" 6.	" " "	... 2/6
" 12.	" " "	...	1/-	" 5.	For Belts 9 in. and larger...	3/6
" 11.	For Belts 1¾ to 3½ in.	...	1/2	" 4.	" " " "	4/6
" 10.	" " "	...	1/3	" 3.	" " " "	5/6
" 9.	" " "	...	1/4			

Green's Patent Fasteners

No. 2562.



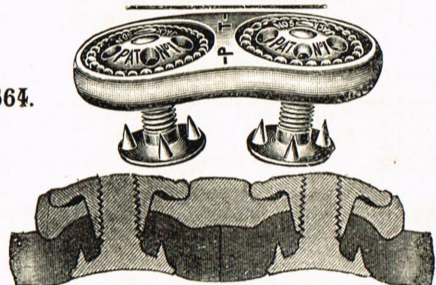
These Belt Fasteners are designed as a substitute for the leather laces and rivets now employed. They are easier on the Belt, more readily applied, and pass more smoothly over the Pulley. They make stronger joints than any Fastener now in use, and are cheaper and more durable.

The Belt Fasteners are packed in boxes of 100 each. No. 00, the largest size, is suitable for four or five ply Rubber Belts, or heavy double Leather Belts; No. 5 for Light Belts; intermediate sizes in proportion.

Nos.	5	4	3	2	1	0	00
Price, per Box of 100	1/6	2/-	2/6	3/-	4/-	5/-	6/-
" per dozen	-2½	-3	-3½	-4	-5	-7	-8

Jackson's Patent Button Belt Fasteners.

No. 2564.

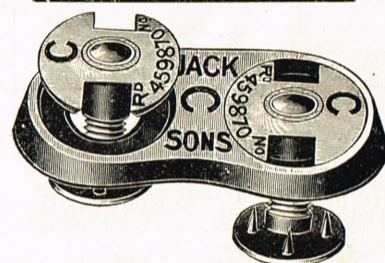


Concave and Convex.

Section showing Grip.

This type of fastener is suitable for all kinds of belting for light driving, and is specially used for belts on cones, fans, sawing machines, dynamos, etc. Will run 4,000 revolutions per minute. Guaranteed to run noiseless.

Size	...	A	B	C	D	E	F	G	H
Width of Plate		¾	1⅜	1⅜	1⅜	1⅜	1¼	1⅝	1½ in.
Length		1⅞	1⅞	1⅞	1⅞	2⅞	2⅞	2⅞	3⅜
For Belts	...	To 2	3	4	5	6	8	10	15 in. wide
Price	...	3/6	3/6	4/3	5/3	6/3	7/-	8/6	9/6 doz.

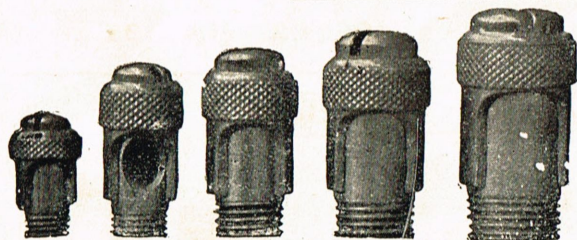
New Pattern Slotted Button Plate Fasteners.

No. 2565.

For all-round purposes. When ordering, kindly state thickness of Belt.

Size	A	B	C	D	E	F	G	H	I
Width	¾	1⅜	1⅜	1⅜	1¼	1⅝	1½	1⅞	1⅞ in.
L'gth	1½	1¾	2	2¼	2⅝	2⅞	3⅞	3⅞	3¾
Belts	To 2	4	5	6	7	8	10	18	20 in. wide
Price	3/6	3/6	4/3	5/3	6/3	7/-	8/6	10/6	11/- doz.

Keys for above, 6/- per doz.

Universal Dust-proof Oil-hole Covers.

No. 1. No. 2. No. 3. No. 4. No. 5.

No. 2575. These covers are readily attached by a screwdriver. The cap is held on by a spring, which holds it secure but allows it to turn easily by the fingers.

They are made in the six sizes listed, are well proportioned, neatly finished, and have large oil-holes into which the spout of the oil-can is readily inserted, and in case it should not deliver freely the fact can easily be observed. All sizes have a broad knurled surface on the cap, by which they are easily turned with the fingers.

	Nos.	0	1	2	3	4	5
Sizes of Threaded Body	...	...	...	...	...	...	...
Number of Threads	...	10 × 32	1¼ × 32	5/16 × 32	3/8 × 24	7/16 × 24	1½ × 24
Diameter of Caps	...	...	...	...	...	...	...
Prices, Nickel Plated	...	per doz.	3/6	4/6	5/-	6/-	8/6
Special Taps for ditto	...	each	1/4	1/4	1/9	2/-	2/6

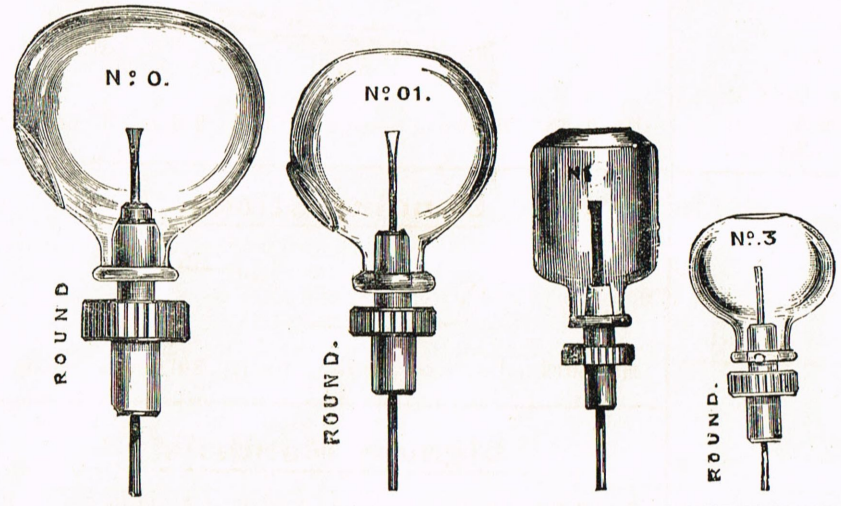
Dust-proof Oil-hole Covers are made of rolled brass and finely nickel plated.

FOR LATEST CORRECTED PRICES SEE PREFACE.

Genuine Lieuvain's "Needle" Lubricators.

The Illustrations are one-third of the actual size of the respective numbers.

No. 2571.



Nos. 00 and 000 are similar in shape to No. 0, but are of greater capacity.

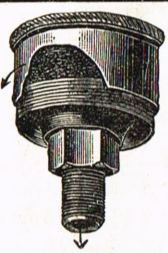
The apparatus is filled with oil and turned neck downwards, and the lower end of the stopper is fitted or, if necessary, pared down to fit the oil hole over the bearing of the shaft; the rod alone descends, and comes into contact with the parts required to be lubricated, the least movement of which produces an oscillation or vibration of the rod which disengages a small portion of oil, and causes it to descend from the globe, the quantity being in proportion to the speed.

Its economy in saving of oil is incredible; an ordinary globe, containing but a small quantity, will lubricate a small shaft turning 150 to 200 revolutions per minute for upwards of a month.

Shape	...	...	...	Round.	Round.	Round.	Flat.	Round.	Flat.	Flat & Round.	Flat & Round.	Flat.	Round.	Round.	Half Round.
Number	...	...	...	0	01	1	2	3	4	5	6	7	8	9	10
Capacity	...	...	...	12	6	2	1½	1¾	1¾	1½	½	½	¾	½	1 oz.
Size, diam.	...	...	...	4	3¾	2	2×1½	2¼	2¼×1	2⅝	2⅓	1¾×⅞	1¾	1⅝	3×2¼ in.

PRICES.

Nos. 1 to 10 inclusive, 7/6 per doz.; -/8 each. No. 01, 9/- per doz.; -/10 each. No. 0, 13/- per doz.; 1/2 each.



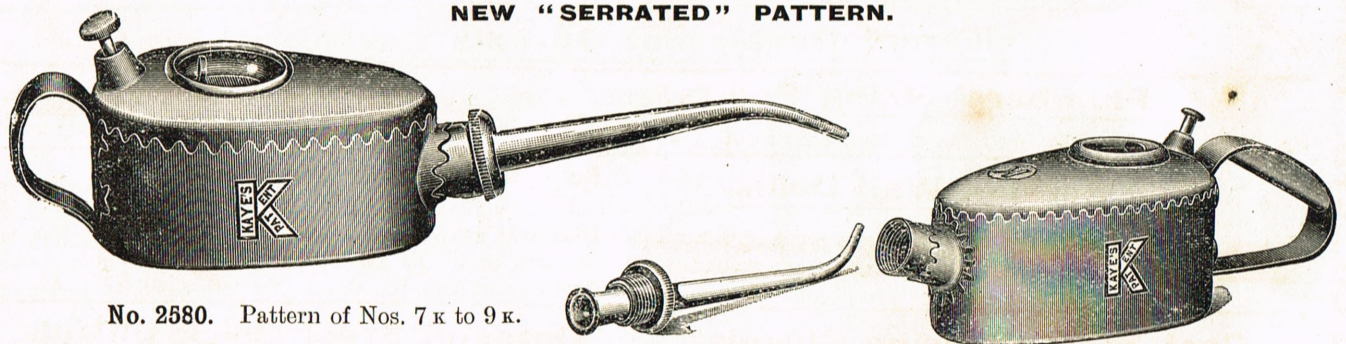
No. 2576. Iron.

Stauffer Pattern Lubricators.

Sizes				1	2	3	4	5	6	7
Diameter of Cup	...	...	in.	1⅜	1	1¼	1½	2	2¾	2¾
Shank Screwed	...	...	in. gas	⅝	¾	¾	¾	¾	¾	¾
No. 2576. Iron	...	...	per doz.	3/-	4/6	5/6	6/6	9/-	11/-	16/-

Kaye's Patent Seamless Steel Oil Cans.

NEW "SERRATED" PATTERN.



No. 2580. Pattern of Nos. 7 K to 9 K.

With Patent Feedhole and Interchangeable Screwed Spouts.

PRICES.

No.	Capacity.	Length of Spouts.	With Interchangeable Steel Spouts.	With Copper Spouts.
7 K	1/3 pint	5 in.	4/9 each.	5/- each.
8 K	1/2 "	6 "	5/- "	5/6 "
9 K	2/3 "	7 "	6/- "	6/3 "
9 A K	1 "	8 "	7/- "	7/3 "
10 K	1½ "	10 "	8/- "	8/6 "

FOR LATEST CORRECTED PRICES SEE PREFACE.

C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

PLUMBERS' TOOLS.

All our Plumbers' Wood Tools are best London make and finish.

Lead Dressers.

- Nos. ... 1½ 1¾ 2 2¼ 2½ in. wide.
 No. 2611. Boxwood Dressers 2/- 2/6 3/- 3/6 4/- each.
 „ 2612. Hornbeam Dressers — — 2/- — 2/6 „

Bossing Sticks.

- No. 2613. Boxwood Bossing Sticks, 2/6 and 3/- each.

Bossing Mallets.

No. 2614. Cane Handles.

- No. 2614. Bossing Mallets.
 Nos. 1½ 1¾ 2 2¼ 2½ 2¾ 3 3½ 4 in.
 1/- 1/3 1/6 1/9 2/- 2/3 2/6 3/- 4/- each.
 „ 2615. Extra Large Stretching Mallets, 4/6 and 5/- ea.

**Chase Wedges.**

- Nos. ... 2 2½ 3 3½ in.
 No. 2616. Chase Wedges, Plain -/10 1/- 1/3 1/6 each.
 „ 2617. „ „ Hooped 1/3 1/6 1/9 2/- „

**Plumbers' Shave Hooks.**

Shave Hooks.

- No. 2639. Straight or Bent Heart Shape 1/6 each.
 „ 2640. Three Square 1/6 „
 „ 2641. Soil Pipe or Gauge Shave Hooks and Spoon Hooks 2/3 „

**Steel Bend Bolts or Pipe Benders.**

- No. 2625. Steel Bend Bolts ... 12 by ½ in., 3/-; 14 by ⅝ in., 3/6;
 16 by ⅞ in., 4/- each.

Plumbers' Fixing Points.

- No. 2626. Plumbers' Fixing Points, 12 in., 1/2; 15 in., 1/4; 18 in., 1/6 ea.

Star Section Wall Drills.

- No. 2627. Star Section Wall Drills—

	12	14	16	18 in.
Diameter 1 in.	2/3	2/6	—	— each.
„ 1½ in.	2/6	2/9	3/3	— „
„ 2 in.	—	3/-	3/6	4/- „

Cast Steel Plugging Chisels.

- No. 2628. Price, 1/9 each.

Octagon Steel Brick Chisels.

	No. 2629.	
Length ...	12 18 24 in.	
⅝ in. Diameter ...	1/9 2/3 3/6 each.	
¾ „ „ ...	2/3 2/9 4/3 „	

Improved Wall Plugging Chisels with Tommy Bar.

- 9½ by ½ in., 2/- ... 9½ by ⅝ in., 2/6

Plumbers' Ladles.

No. 2635.



Plumbers' Wrought-iron Ladles.

3	3½	4	5	6 in.
-/10	1/-	1/3	1/8	2/3 ea.

Melting Pots.

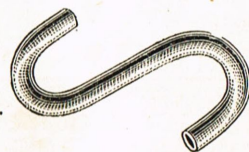
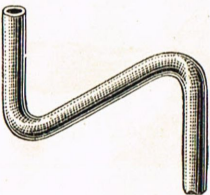
With Improved Pattern Upright Ears.

No. 2637.

5	5½	6	6½	7½ in.
2/6	3/-	4/-	5/-	6/6 each.
8½	9½	10½ in.		
7/6	9/6	13/-	each.	



Billing's Patent Device for Bending Lead Pipe.



No. 2632. No Plumber can afford to be without it. Saves ten times its cost every month. Makes bends any shape in a moment. Without Kinking, Flattening, or Marking in any way. Two specimens of Pipes bent with this Tool are here shown.

DIRECTIONS FOR USE.

Drive the Plug provided through the pipe to take out any irregularities, should there be any, then put a few drops of oil on the spring, place it inside the pipe, and bend to the desired shape.

It is as easy to form opposite or double curves, such as goose-necks, as a single bend.

To remove the Bender from the pipe, after the bend is made, bend back a trifle on each bend, then turn the Bender to the right (which decreases its size) and pull at the same time.

Every Bender is warranted if directions are followed.

Size ...	...	...	1	1¼	1½	2	2½	3	3½	4 in.
Price ...	...	...	3/6	4/6	5/6	7/6	13/6	18/-	22/-	27/- each.

Patent Pipe Clamp or Soldering Vice.

Indispensable to Gasfitters and Plumbers. Can also be used as a Brazing Clamp.

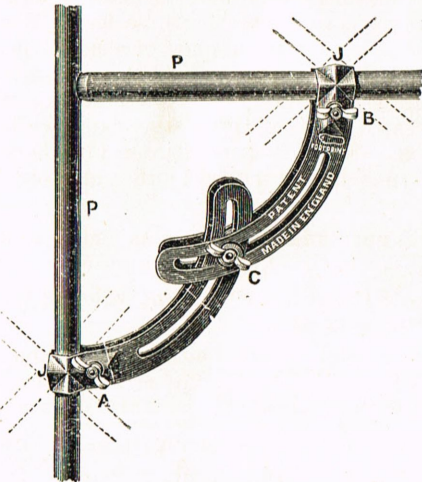
No. 2633. Patent Pipe Clamp or Soldering Vice. Black finish, 9 in. long, 4½ in. wide (when closed up), complete with nuts, screws, etc., weight, 1½ lb. Price, 8/6 each.

„ 2634. Ditto, small size. Black finish, 5½ in. long, 2¼ in. wide (when closed up), complete as above; weight, 6 oz. Price, 5/- each.

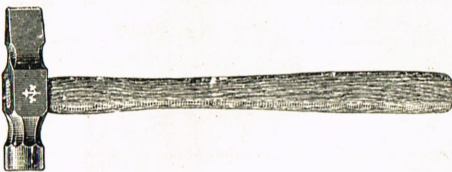
For Cycle Makers to hold parts whilst they are brazed together.

This extremely simple device consists of very few interchangeable parts, viz., 2 pairs of arms, 3 screws, nuts and washers, 2 large or central pivot washers.

The slots form the arc of a circle, the centre joint allows them to intersect one another at different angles, so that an infinite number of variations in position may be obtained.



Plumbers' Hammers.



No. 2646.

Handled Plumbers' Hammers.

12	16	20	24	32 ozs.
2/3	2/3	2/9	3/3	4/3 each.

Pipe Openers



No. 2647.

Pipe Openers.

3/- and 3/6 each.

Tool Bags.



No. 2645. Same material as "Hardware Baskets," Eyeletted and Roped. Size 15 by 20 in. 4/- each. „ 18 „ 20 „ 4/6 „ „ 20 „ 20 „ 5/- „

Drip Plates.



No. 2649.

Steel Drip Plates.

1/6 each.

Copper Bit Soldering Irons.

No. 2650.

Copper Bits, 1/3 2/- 2/6 3/3 3/9 each.
Over 1 1/2 lb. in weight, 2/6 per lb.



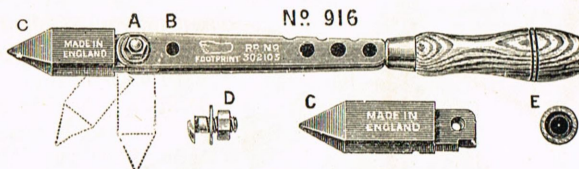
Improved Adjustable Copper Bits.

General Description and Remarks:—

This Tool consists of a copper end C, which is inserted into a U section shank, and can be swung round at different angles, as shown by the dotted outlines, and clamped by the nut A. The hole B is to insert an extra screw, if necessary, to clamp the copper end very tight, or sometimes the end can be clamped in hole B, to serve as a "hatchet" bit. The hollow shank is U section from the end to the handle. At the handle it is provided with suitable shoulders to keep the ferrule in place; inside the handle it assumes the shape of a round tube, so that the air can pass right through the handle and through the perforations above the ferrule, and keep the handle as cool as possible.

No. 2651. Improved Adjustable Copper Bit Soldering Irons.

Weight ... 8 10 12 16 20 24 28 32 oz
Prices ... 3/9 4/- 4/3 4/6 5/9 7/- 8/3 9/6 each.



Improved Gas-Heating Soldering Iron Stove.

No. 2652. This Stove will heat one bit and keep another nearly ready for use, so that the two can be used in succession.
Price, 9/- each.

"London" Furnace. For Universal Use.

In the "London" Furnace we have combined all the advantages introduced in our other furnaces, and have been able to make several further improvements. The furnace is supported by three legs. The lamp itself is of Brass. The burner of this lamp is of a new type, and equally as powerful as two ordinary burners. The lamp stove itself can be taken out for cleaning, repairs, etc. Iron pipes up to 1 1/2 in. (inner diameter) can be heated for bending in the flame while the lead is being melted in the pot. In the same manner Plumbers' Soldering Irons and Copper Bits can be introduced by the side doors, as shown in the illustration.

Result of Experiments.—26 lb. of Plumbers' Metal was melted in 9 minutes. 1 1/4 in. Steam Pipe red hot for bending in 10 minutes.

Capacity.—Tank holds 3 pints of Paraffin. One filling will last for 2 1/2 hours. Pot holds 23 lb. of Plumbers' Metal.

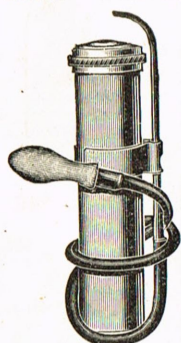
Guarantee.—Every Stove is perfect. Flame atmospheric blue, without smoke or smell. No wick. Burns Paraffin or Petroleum. Every Stove is tested under very high pressure.

Price, complete with Melting Pot (without Soldering Irons or Fire Clay Cover) ... £4 5 6 each. F.O.R.
Price of Fire Clay Cover for Heating Pipes, extra ... 2/6 each.

Methylated Spirit Blow Lamps.

These Lamps must be filled with Cotton Waste before charging.

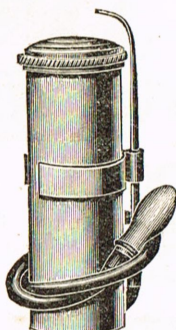
No. 2675. With Cover.



Size, 4 1/4 by 1 in.

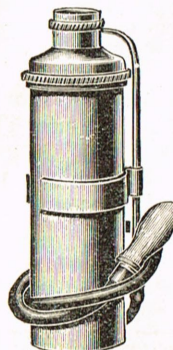
No. 2675. Price, 3/- each.
„ 2676. Ditto, without Cover, 2/6 each.

No. 2677. Single Top.



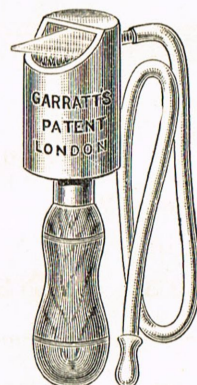
Size, 4 1/2 by 1 1/2 in.
Price, 4/- each.

No. 2678. Double Top.



Size, 4 1/2 by 1 1/2 in.
Price, 4/6 each.

No. 2680.

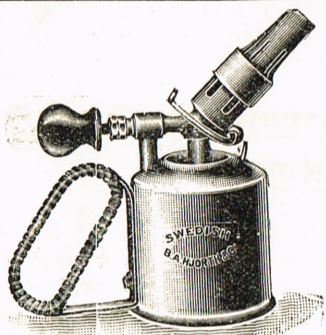


Small, 3/- each.
Large, 4/6 „

No. 2669. Burns Paraffin.



The "Swedish" New Blow Lamp.



The "Swedish," No. 2684.

In the "Swedish," No. 2684, the flame can be regulated as in the Original "Swedish" Blow Lamps. The Handle is detachable. The filling is conveniently done at the bottom of the lamp, which for this purpose is slightly funnel-shaped. The Lamp is substantial and strong, has a safety valve, and is without doubt the cheapest, safest, and most practical Blow Lamp on the market.

Capacity, $\frac{1}{2}$ pint. Burns at full flame without attention for $1\frac{1}{4}$ hours. Length of flame is 8 in., is intensely hot, and free from smoke or smell. No. 2684. Price, 19/- ea.

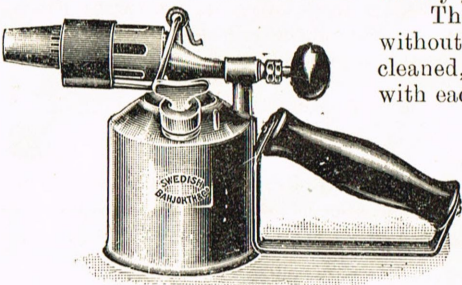
The "Swedish" Blow Lamp.

Burning Benzoline or Petrol.

The principle of the "Swedish" Blow Lamp is well known throughout the trade, having been in use now for more than twenty years.

The Lamp is without any complicated burner and without pump. Every part can be taken out and cleaned, and a Set of Tools and Reserve Parts is supplied with each Lamp.

The Lamp will burn in any position and in all weathers, and the size of the flame can be regulated like a gas-jet. When put out there is no escape of oil from the tank. It is used for burning off old paint and varnish, for soldering purposes, for thawing frozen pipes, for hardening tools, etc. The Lamp holds two-thirds of a pint of benzoline, and will burn with full flame without any attention for $1\frac{1}{2}$ hours. Each Lamp is supplied with Box of Reserve Parts.

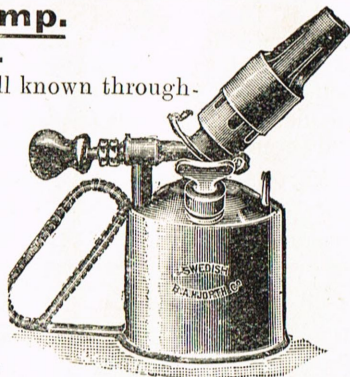


No. 2685.

No. 2685. Low pattern, with very convenient handle. Height, $5\frac{1}{2}$ in. Price, 25/- each.

" 2686. Most usual pattern. Height, $7\frac{1}{4}$ in. Price, 25/- each.

" 2687. With Vertical or Upright Burner. Height, 8 in. Price, 25/- each.



No. 2686.

The "Aetna" Brazing Lamp, for Plumbers and Others.



No. 7.

The "Aetna" is a Petroleum Brazing Lamp, burning without Wick and without Smoke. It gives a pure and a very hot flame, registering $3,600^{\circ}$ Fahr. It burns upside down or in any other position, and is not affected by wind or rain. A pint of Petroleum will last two hours. Every Lamp is tested and warranted perfect. For Laboratories it is made with an Upright or Vertical Burner.



"Aetna,"
Nos. 1 and 2.

Burns
Paraffin Oil.

No. 2703.	No. 1. Inclined Burner.	To contain $1\frac{3}{4}$ pints,	36/6 each.
" 2704.	" 2. " " (usual size)	" 1 "	32/6 "
" 2705.	" 3. Vertical Burner for Laboratories	" $1\frac{3}{4}$ "	36/6 "
" 2706.	" 4. " " "	" 1 "	32/6 "
" 2707.	" 7. Inclined Burner.	" $\frac{5}{8}$ "	27/- "

Extra Burners for Lamps Nos. 1, 2,
3, or 4, price, 7/6 each.
Extra Flame Tubes, price, 2/6 ea.

No. 2703E. English Made Lamp of same pattern but with Strong Galvanized Steel Body. 1 pt., 21/-; 2 pts., 32/6.

The "Vesuvius" Blow Lamp for
Painters and Others.

No. 2708. Burns Paraffin Oil.

The "Vesuvius" is a Paint-removing Blow Lamp, burning Petroleum or Paraffin Oil without Wick or Smoke. It is very efficient, and will burn off Paint as quickly as it can be followed up with a Scraper. It is not quite so hot as the "Aetna," but gives a broader and very powerful flame greatly valued for many purposes. It will burn in any position, in wet or in stormy weather. Every Lamp has been tested under a high pressure, and is warranted perfect. The Oil Gas is only formed in the Burner, and the Tank contains nothing but Oil and Compressed Air — explosion is therefore impossible.

No. 1. Inclined Burner.	To contain $1\frac{3}{4}$ pints,	34/- each.
" 2. " " (usual size)	" 1 "	30/- "
" 3. Straight Burner for Laboratories	" $1\frac{3}{4}$ "	34/- "
" 4. " " " "	" 1 "	30/- "



"Vesuvius"
Nos. 1 and 2.

Improved Petroleum Brazing Lamps.

Petroleum has, as a burning material for brazing and soldering lamps, undoubtedly two great advantages over its competitors, benzine and methylated spirit.

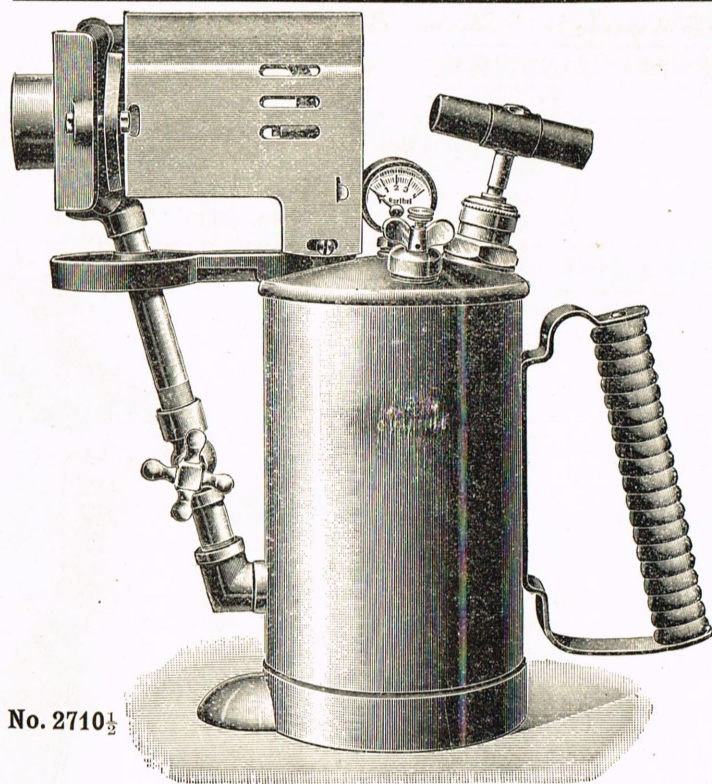
First.—Being comparatively less dangerous than benzine and methylated spirit.

Second.—Petroleum may be had everywhere, but not so benzine. Besides these two chief points, another one is that the use of Petroleum is much cheaper than the use of benzine or methylated spirit.

English Made throughout.

No. 2710 $\frac{1}{2}$. Length of Flame, 20 in. Holding 5 pints of Petroleum. Burning about 1 hour at a pressure of 3 atmospheres. Mouth of Flame Tube, $1\frac{2}{3}$ in. diameter.

Price, 75/- each.



No. 2710 $\frac{1}{2}$

Primus Stoves.

The "Primus" Stoves can be used both indoors and out of doors, and are in use all over the world for innumerable purposes.

ABOUT THE "PRIMUS" STOVE.

The "Primus" Stove burns ordinary Paraffin without the use of a wick. The burner is first heated with a little methylated spirit, and, when the latter is nearly consumed, the paraffin is forced through the heated burner tubes, and becoming gasified, issues through the small hole in the nipple, burning with a blue atmospheric flame, free from smoke or smell. It is, therefore, very cleanly, besides being most economical in use, a pint of Paraffin supplying the stove for $2\frac{1}{2}$ to 3 hours. The flame is increased by occasional pumping of air into the tank, and lowered by opening the air-valve for a second or two, or extinguished by leaving same open.

N.B.—Never fill the tank more than three-fourths of its capacity.

ADVANTAGES.

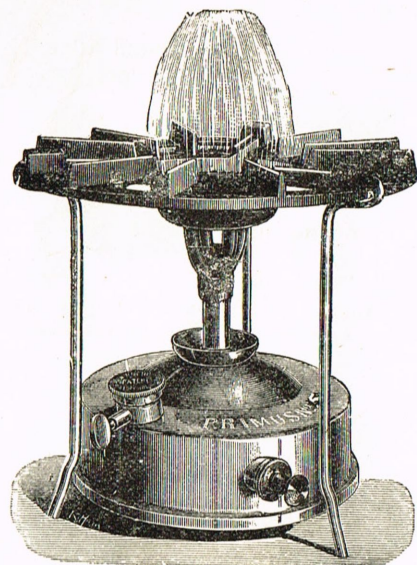
Half a gallon of cold water can be boiled in less than 6 minutes.

It will cook a steak in 5 minutes.

It will, with a "Hestia" Oven, bake your bread or cook a dinner for the whole family.

It will keep smoothing irons hot for two persons' use.

The Genuine "Primus" Wickless Cooking Stove.

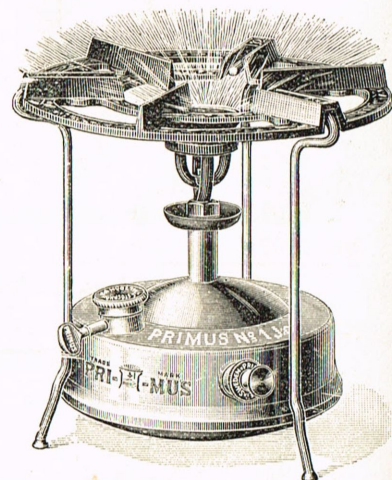


Silent Patterns.

"Primus" No.	4	5
Capacity in pints	$1\frac{1}{2}$	$2\frac{1}{4}$
Price	20/-	23/- each.

"SILENT" Patterns are most suitable for Indoor use.

"Primus" Nos. 0, 4, have medium burners.



Roarer Patterns.

"Primus" No.	0	1
Capacity in pints	$1\frac{1}{2}$	$2\frac{1}{4}$
Price	18/6	22/- each.

"ROARER" Patterns are most suitable for Outdoor use.

"Primus" Nos. 1, 5, have large burners.

Burns with a blue atmospheric flame, free from smoke or smell. Adaptable for Boiling, Baking, Toasting, Grilling, in fact, any cooking purposes. Any Servant can manipulate them. Easily lighted, regulated, or extinguished like a gas flame. Every stove has been thoroughly tested under very high pressure.

CHARLES NURSE & CO., LTD.
BEST QUALITY IRONMOULDERS' TOOLS.

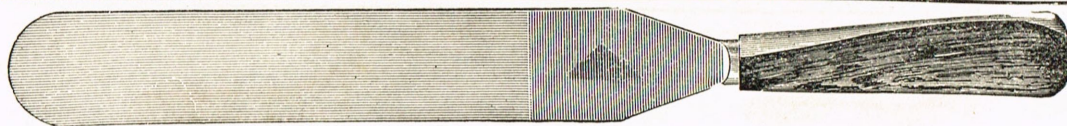


FOR LATEST CORRECTED PRICES SEE PREFACE.

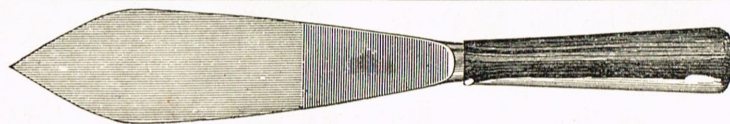
C. NURSE & CO., LTD., INVICTA TOOL WORKS, 181 & 183 WALWORTH RD., LONDON, S.E. 17

Best Quality Ironmoulders' Tools—continued.

						$5\frac{1}{2} \times 1$	$5\frac{1}{2} \times 1\frac{1}{4}$	$6 \times 1\frac{1}{2}$	$6\frac{1}{2} \times 1\frac{1}{2}$	$6 \times 1\frac{3}{4}$ in.
A	English Trowels, Wood-handled	...	...	...	...	3/3	3/6	4/-	4/3	4/9 each.
B	Taper Trowels, Wood-handled	...	...	...	...	...	...	...	... 6 in.,	4/- „
							$5\frac{1}{2} \times 1$	$5\frac{1}{2} \times 1\frac{1}{4}$	$6 \times 1\frac{1}{2}$	$6 \times 1\frac{3}{4}$ in.
C	Scotch Trowels	...	...	...	...	...	3/9	4/-	4/6	5/3 each.
						Nos.	...	1	2	3
D	Long Heart Trowels	...	...	...	...	...	...	3/3	—	— each.
E	Broad Heart Trowels	...	...	...	...	...	...	4/-	4/6	5/- „
F	Heart and Square Trowels	...	...	...	...	...	...	3/-	3/6	4/- „
G	Gait Knives	...	...	...	...	...	...	4/-	4/6	— „
H	Spoon Tools	...	...	...	...	...	...	4/-	4/6	5/- „
I	Straight Beads	...	...	...	...	...	...	4/-	4/6	5/- „
J	Fluted Beads	...	...	...	...	...	...	4/6	5/-	5/6 „
K	Circular Beads	...	...	...	...	...	...	4/-	4/6	5/- „
L	Boss Tools	...	...	...	...	...	...	6/6	7/-	7/6 „
						Nos.	...	1	2	3
							$\frac{1}{2} \times \frac{1}{4}$	$\frac{5}{8} \times \frac{3}{8}$	$\frac{3}{4} \times \frac{1}{2}$	$\frac{7}{8} \times \frac{5}{8}$ in.
M	Girder Tools	...	...	...	...	...	5/9	6/-	6/6	7/6 each.
						$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
N	Flange Bead Upsets	...	...	—	5/-	5/6	6/-	6/6	—	— each.
O	Flange Cleaners	...	...	—	5/-	5/6	6/-	6/6	—	— „
P	English Cleaners	...	...	2/3	2/9	3/3	3/9	4/3	5/3	6/- „
Q	Scotch Club Cleaners	...	...	—	5/6	6/-	6/6	7/-	—	— „
R	Scotch Cleaners	...	...	2/6	3/-	3/6	4/-	4/9	5/6	6/6 „
						Nos.	...	1	2	3
S	Square Corner Smoothers	...	...	...	...	...	...	2/9	3/3	3/9 each.
T	Round-edge Corner Smoothers	...	...	...	...	...	...	2/9	3/3	3/9 „
U	Flange Corner Smoothers	...	...	...	...	...	...	2/9	3/3	3/9 „
V	Round-edge Flange Smoothers	...	...	...	...	...	...	2/9	3/3	3/9 „
W	Oval Pipe Smoothers	...	...	...	...	...	...	2/9	3/3	3/9 „
X	Egg Smoothers	...	...	...	...	...	...	2/6	3/-	3/6 „
Y	Bacca-box Smoothers	...	...	...	...	...	...	2/6	3/-	3/6 „
Z	Safe-end Pipe Smoothers	...	...	...	...	...	...	3/-	3/6	4/- „

PAINTERS' and GLAZIERS' TOOLS.—Palette Knives.

No. 2737.	Improved Pattern, Cocoa Handle ...	...	4	5	6	7	8	9	10	11	12 in.
			1/-	1/3	1/6	1/10	2/3	3/-	3/9	4/9	5/6 each.

Putty Knives.

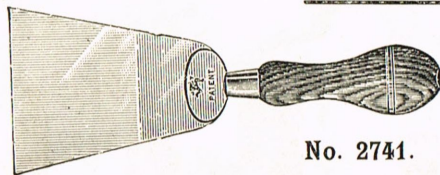
No. 2738.
No. 2740.

No. 2738. Painters' or Glaziers' Putty Knives. These are made with Blades either Spear Point, as illustration, or with Clipt Point or Chisel End as desired.

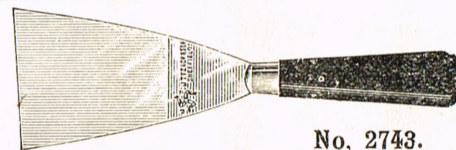
Prices are the same in either shape blade. Best quality, 4½ in., 1/6; 5 in., 1/8 each.

„ 2739. Ditto, ditto, cheaper quality, 4½ in., 1/- each; 5 in., 1/3 each.

„ 2740. Patent Folding Pocket Putty Knives with either shaped blades. Price, 2/- each.

French Chisel or Stripping Knives.

No. 2741.



No. 2743.

No. 2741.	Beech Handled ...	...	...	...	...	3	3½	4 in. wide.
						1/6	—	— each.
„ 2742.	Improved Pattern, with pin through Tang ...	...	...	...	...	1/8	1/10	2/-
„ 2743.	New Pattern, Pinned Tangs, Cocoa or Ebony Handles ...	...	...	...	...	2/6	3/-	3/9

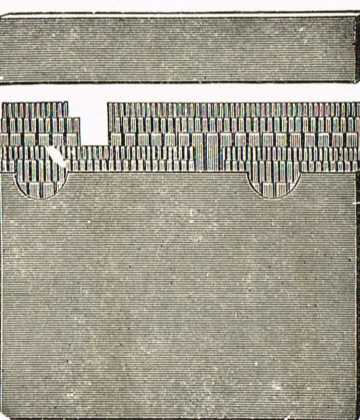


No. 2745.

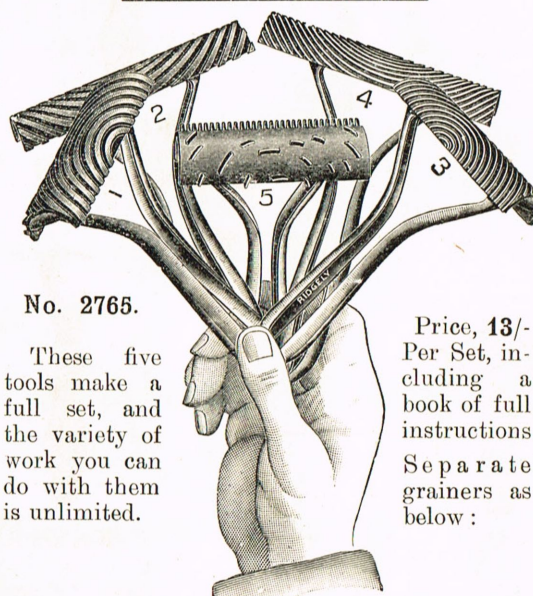
Hacking Knives.

No. 2746.

No. 2744.	Hacking Knives with Two Rivets ...	...	...	...	...	4	4½	5 in.
						1/3	—	— each.
„ 2745.	„ „ „ Three „ ...	...	...	...	...	1/6	1/8	—
„ 2746.	Chipping Knives ...	...	...	...	...	—	2/3	2/6

Graining Combs.

No. 2764. Set of 12 Graining Combs in neat Tin Case, 4/6 per set.
Loose Combs, -/2 per in.

Graining Tools.

No. 2765.

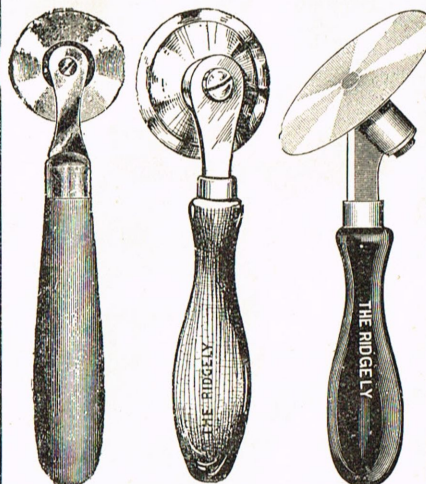
These five tools make a full set, and the variety of work you can do with them is unlimited.

Price, 13/- Per Set, including a book of full instructions
Separate grainers as below :

Nos. 1, 3, 5,	...	...	2/6 each.
„ 2 or 4	...	...	3/- „

Ridgely Casing Wheels.

No. 2762. Ridgely Casing Wheels are designed for trimming paper close to window casings, door-frames, mantels, wainscoting, etc. Much better and easier to use than a knife. They are an invaluable aid in the production of clean finished work.



No. 6.	No. 11.	No. 12.
1½" Blade, 2/3	1½" Blade, 2/6	2" Blade 2/9

PAINTERS', PAPERHANGERS', AND OTHER BRUSHES.

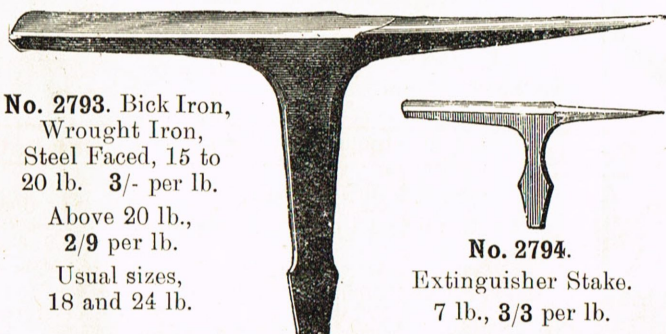
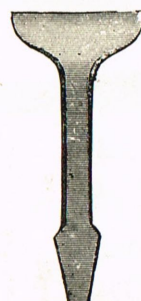
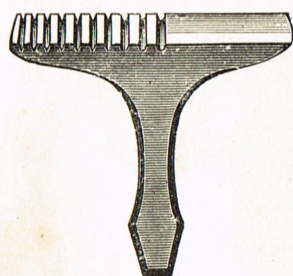
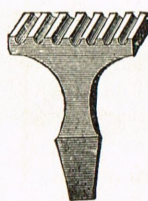
The enormous advances in the cost of Brushes, and the very unsettled state of the Market prevents our quoting any prices, and we can only say we shall be pleased to quote prices current on receipt of exact particulars of customers requirements.

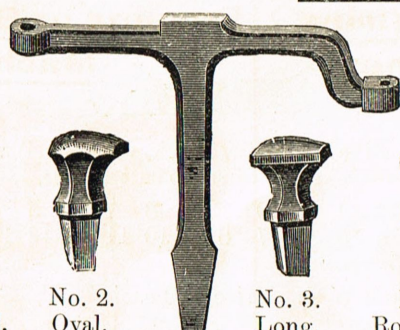
TINMEN'S TOOLS AND MACHINES.**Tinmen's Punches, etc.****No. 2779.** Tinmen's Hollow Punches.**No. 2780.** Rivet Sets (Best Solid Cast Steel) with Holes to clear Burrs to suit Rivets.

$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2 in.	15	14	13	12	11	10	9	8	7	6	5	4	3	W.G.				
$\frac{4}{3}$	$\frac{4}{3}$	$\frac{4}{6}$	$\frac{4}{6}$	5/-	6/-	6/6	7/6	9/6	11/-	12/6	15/- ea.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	size.	
												5/6 each.												6/- each.					

No. 2781. Single Rivet Sets or Burrs. Nos. 15 to 6 W.G. Price, 1/9 each.

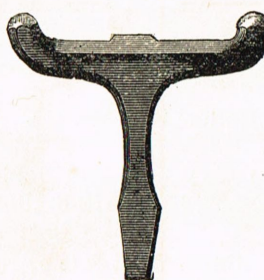
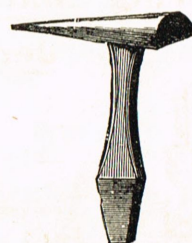
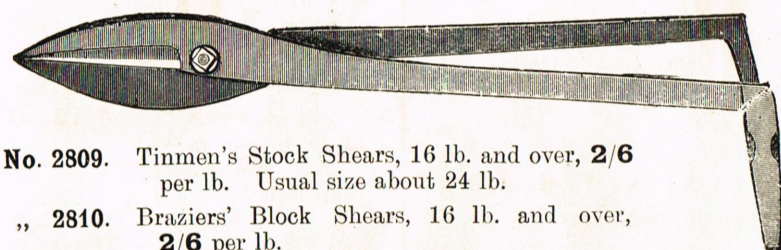
No. 2782. Groove Punches $\frac{1}{8}$ $\frac{3}{16}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{7}{16}$ $\frac{1}{2}$ $\frac{9}{16}$ $\frac{5}{8}$ in. grooves.
5/6 5/6 5/6 6/6 6/9 7/- 7/6 9/- 10/6 each.

Tinmen's Hammers.**No. 2783.** Stud, 3/6 lb. 3 lb. under 1 lb. 3/6 each. 3/6 per lb.**No. 2784.** Block, 3 lb. Blocking or Hollowing, 3/6 per lb.**No. 2785.** 3 lb. Blocking or Hollowing, 3/6 per lb.**No. 2786.** 3 lb. Planishing, 3/6 per lb.**No. 2787.** 3 lb. Flat Face, 3/6 per lb.**No. 2788.** Square and Round Face, 5/3 per lb. under 1 lb., 5/6 each.**No. 2789.** Creasing, 4/- each.**No. 2791.** Paning, 4/- each.**No. 2792.** Riveting, 5/- each.**No. 2793.** Bick Iron, Wrought Iron, Steel Faced, 15 to 20 lb. 3/- per lb. Above 20 lb., 2/9 per lb. Usual sizes, 18 and 24 lb.**No. 2794.** Extinguisher Stake. 7 lb., 3/3 per lb.**No. 2795.** Hatchet Stake. 10 lb., 2/6 per lb.**No. 2796.** Half-Moon Stake. 7 lb., 2/6 per lb.**No. 2797.** Canister Stake. 15 lb., 3/6 per lb.**No. 2798.** Creasing Iron, 14 lb., 4/- per lb.**No. 2799.** Grooving Stake, Anvils, Average Weight, 15 lb., 4/3 per lb.**No. 2800.** Pepper Box Head, 3/6 per lb. 45 lb., 3/6 per lb.**No. 2801.** Tea Kettle Bottom Stake, 5 lb., 3/6 per lb. 20 lb. 3/3 per lb.**No. 2802.** Teapot Neck Tool, 5 lb., 3/6 per lb.**No. 2803.** Cast Mandril. Usual length, 4 ft. Flat part, 18 by 2 3/4 in. wide. Half-round part, 30 1/4 by 2 3/4 in. wide. Average Weight, 75 lb. -/10 1/2 per lb. Also small size, 3 ft. by 2 1/2 in. Price, 35/- each.

Tinmen's Tools—continued.No. 1.
Flat, Round.No. 2.
Oval.No. 3.
Long.No. 4.
Round Head.Carriage
Forward.

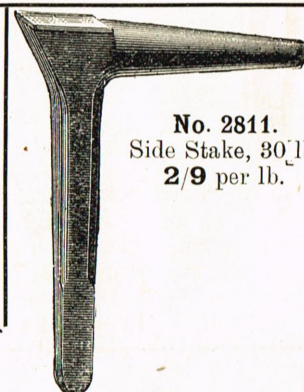
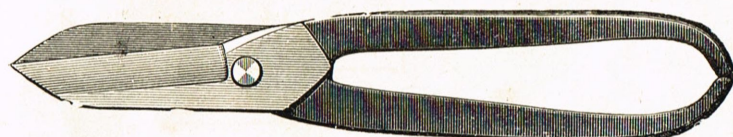
No. 2805. Tinmen's and Braziers' Horse, 28 lb. **2/3** per lb.
 „ 2806. Heads for do., Nos. 1, 2, 3, 4, about 3 lb. each,
4/- per lb.

The Weights mentioned are about the usual average.

No. 2807.
Saucepan Belly Stake,
25 lb. **3/6** per lb.No. 2808.
Funnel Stake, 20 lb.
Wrought Iron, Steel Faced,
3/- per lb.
Cast Iron, **1/-** per lb.

No. 2809. Tinmen's Stock Shears, 16 lb. and over, **2/6**
 per lb. Usual size about 24 lb.
 „ 2810. Braziers' Block Shears, 16 lb. and over,
2/6 per lb.

No. 2809.

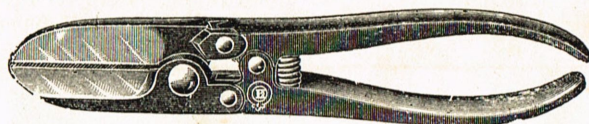
No. 2811.
Side Stake, 30 lb.
2/9 per lb.**Best Hand Forged Tinmen's Snips.**

No. 2812. Best Hand Forged Tinmen's Snip.

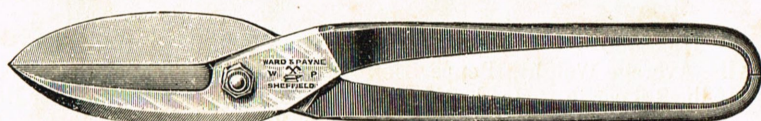
6	7	8	9	10	11	12	14 in.
2/3	2/6	3/-	3/6	4/-	4/6	5/3	7/- per pr.

No. 2813. Ditto, with Bent or Curved Blades.

3/6	4/-	4/6	5/-	5/6	6/-	7/6	— per pr.
------------	------------	------------	------------	------------	------------	------------	-----------

No. 2815. Improved Pattern Tinmen's Snips with
Compound Leverage.

8	9	10	11	12 in.
8/9	9/9	10/6	11/6	12/6 per pair.



No. 2816. Improved Solid Steel Best Finished Tin Snips.

8	9	10	12	14 in.
5/-	5/6	6/-	7/-	11/- per pair.

**Extra Strong
Compound Lever
Shears.**No. 2817. Improved and very power-
ful Compound Lever Cutting Shears.

No. 1 cuts 18 Gauge steel sheets and
up to $\frac{3}{8}$ in. bolts.

Price, **£5 10** per pair.

No. 2 cuts up to $\frac{1}{8}$ in. steel sheets and
 $\frac{9}{16}$ in. bolts.

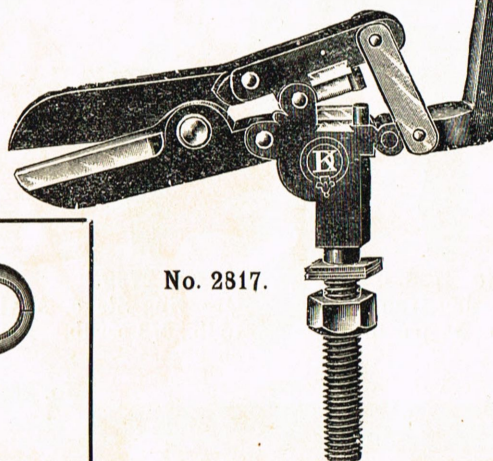
Price, **£7** per pair.

Extra Blades for

No. 1, **14/-**; No. 2, **17/6** per pair.

Extra Cutters for

No. 1, **12/6**; No. 2, **16/-** per pair.



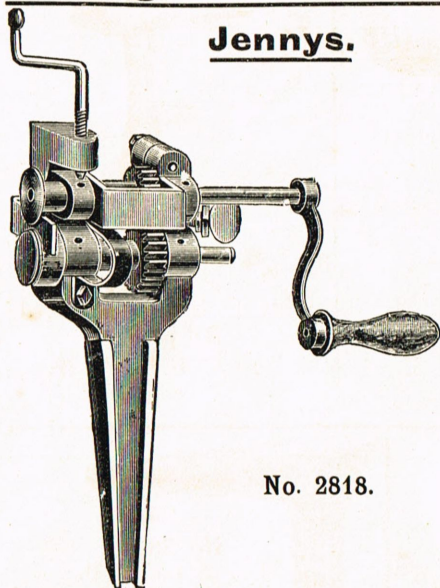
No. 2817.

FOR LATEST CORRECTED PRICES SEE PREFACE.

TINMEN'S MACHINES.

CARRIAGE FORWARD.

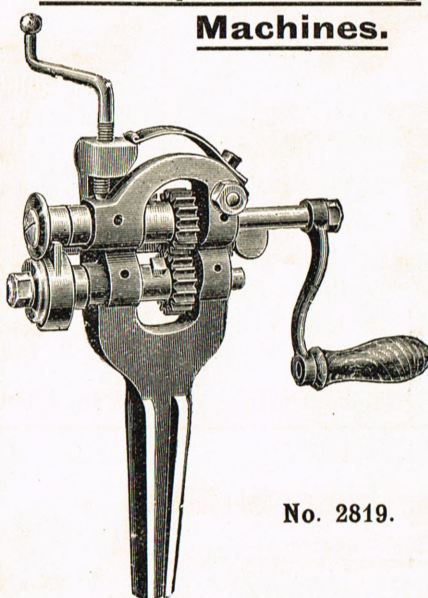
Burring Machines or Jennys.



No. 2818.

- No. 1. Small Size. Diameter of Top Roll, 1½ in. Price, **£4 0 0**
 „ 2. Regular Size. Diameter of Top Roll, 2 in. Price, **£4 7 6**
 „ 3. For Iron Work. Diameter of Top Roll, 3½ in. Price, **£11 17 6**

Turn-up or Wiring Machines.

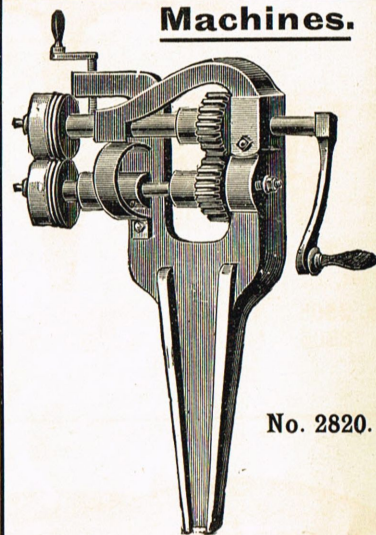


No. 2819.

- No. 1. 2 Strong. 3 Strong.
 Price, **£9 10 0 £11 17 6 £19 5 0**

Each Machine complete, with 4 pairs of Wiring Wheels, 2 Tucking Wheels and Wrench.

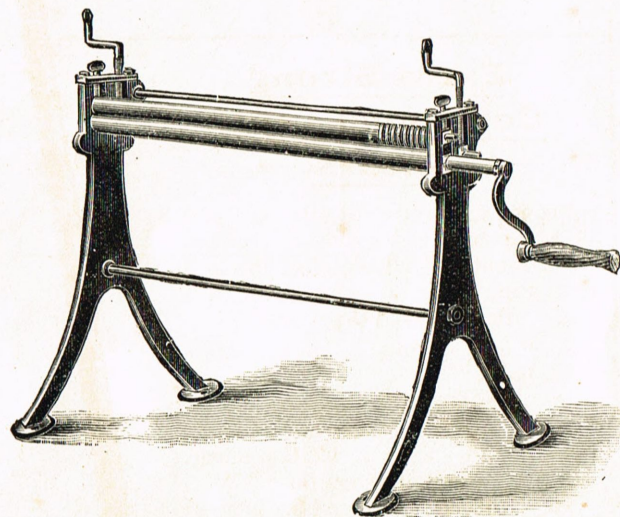
Beading or Swaging Machines.



No. 2820.

- | | | | |
|--|----|----|----|
| No. 1. 2½ in. reach | £ | s. | d. |
| | 4 | 12 | 0 |
| Large size ditto, with Iron Base to fasten on Bench. | | | |
| No. 2. 4 in. reach | 7 | 15 | 0 |
| „ 3. 12 „ „ | 10 | 10 | 0 |
| „ 4. 15 „ „ | 16 | 0 | 0 |
| „ 5. 18 „ „ | 21 | 0 | 0 |
- Each Machine is complete, with 1 pair of Rolls. Extra Rolls, all Steel. Ordinary patterns.
 No. 1, **14/-**; No. 2, **21/-**;
 No. 3, **28/-** per pair.

No. 2821.



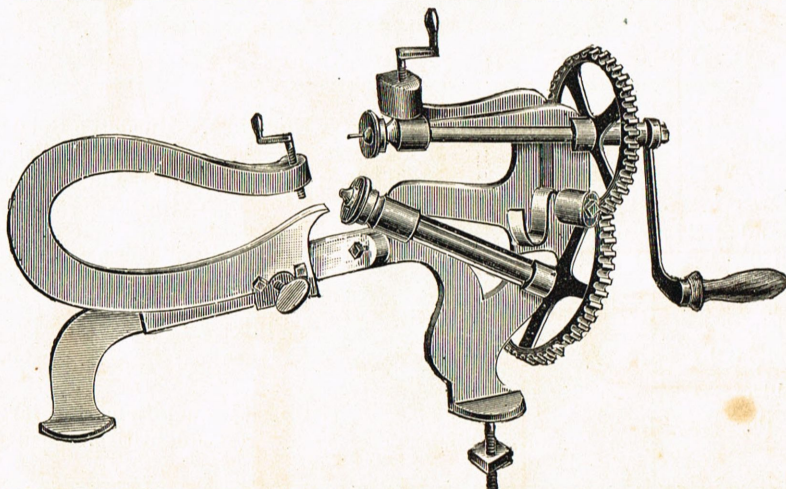
Bending Rollers.

No.	Length.	Diameter.	Fitted with Steel Rolls.		
			£	s.	d.
1	25 in.	1½ in.	9	0	0
2	31 „	1¾ „	11	10	0
3	37 „	2 „	15	15	0
4	37 „	2¾ „	22	10	0
4A	42½ „	2½ „	25	0	0
4B	42½ „	2¾ „	33	10	0
4C	49 „	3 „	43	0	0

Nos. 1 and 2. If fitted with One Roller to draw out, **40/-** extra.
 „ 3 „ „ „ „ „ **50/-** „

Circular Cutters.

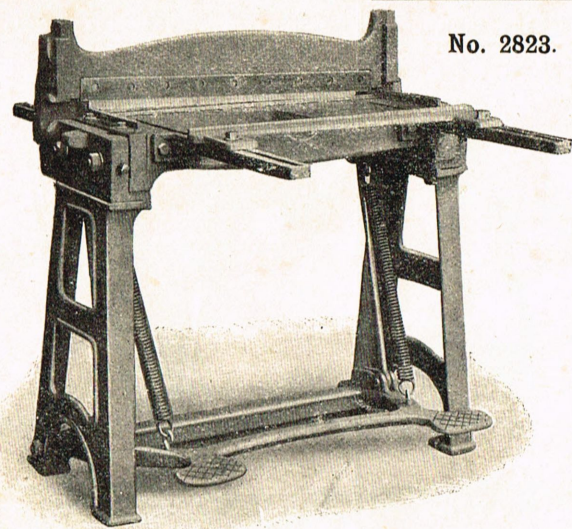
No. 2822.



- | | | | |
|---------------------------------------|----|----|----|
| No. 1. From 2½ in. to 14 in. diameter | £ | s. | d. |
| | 7 | 7 | 0 |
| No. 2. From 3 in. to 18 in. diameter | 11 | 11 | 0 |
- Extra Cutters, No. 1, **10/6**; No. 2, **13/6** per pair.
 Pallets or Clam Plates for above, **52/6** extra.

Carriage Forward.

Tinmen's Machines—*continued.*



No. 2823.

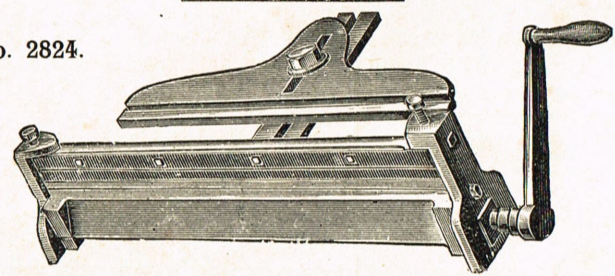
Foot Guillotine Shears.

To cut mild steel up to 20 I.W.G. thick.
Gap, to cut any length.
All parts are adjustable.
Solid end frames.
Large wearing surfaces.

No.	Length of Blades.	Approx. Weight.	Price.		
			£	s.	d.
1	15	1½ cwt.	18	18	0
2	20	2 "	22	5	0
3	24	2¼ "	24	0	0
4	30	3½ "	28	10	0
5	36	4½ "	33	10	0
6	40	5½ "	43	10	0
7	42	6 "	52	10	0

**Angle Bending Machines for
Tin Plates.**

No. 2824.



No. 2824. 17 in. long. Price, **£9 10 0**
,, 2825. Strong Ditto for Sheet Iron—
20 in. 26 in. 30 in. 36 in. 42 in.
£24 0 0 £31 10 0 £36 0 0 £42 0 0 £50 0 0
Each of these Machines complete with one pair of dies.

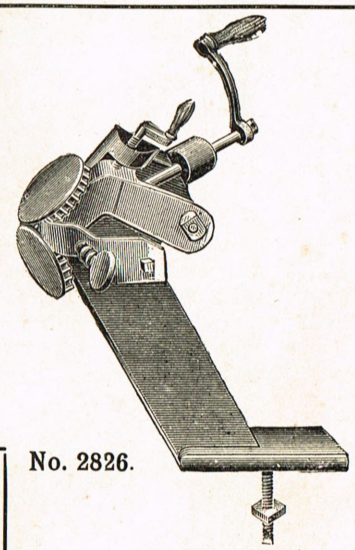
**Paning Down
Machines.**

No. 1.

Price ... **£6 10 0**

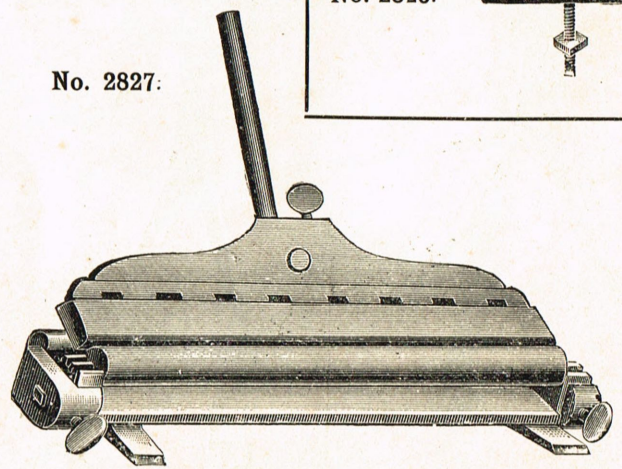
No. 2.

Price ... **£8 10 0**



No. 2826.

No. 2827.



**Folding Machines with Parallel
Slide.**

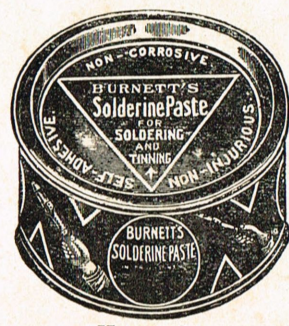
Folding Machine, No.	Length	Price	£	s.	d.
No. 1	17¾ in. long	...	5	12	6
" "	1½ 20¼ "	...	6	10	0
" "	2 26½ "	...	9	10	0
" "	2¾ 30¾ "	...	12	0	0
" "	3 36¾ "	...	16	0	0
" "	4 48¾ "	...	23	10	0



No. 2828.

Price,
-/8, 1/4 and 2/8
per tin

And in
7, 14 and 56 lb.
drums,
2/- lb.



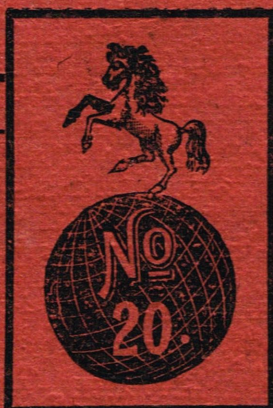
No. 2829.

No. 2829. Burnett's Soldering
Flux. Price,
-/8 and 1/4 per
tin.

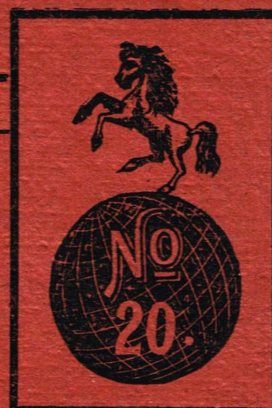
No. 2830. Baker's Soldering
Fluid, in jars.

½ Pint. 1 Pint. 1 Quart.
1/- 1/6 3/- each.

Special quotations for large
quantities.



Established in 1841.



THE "INVICTA"
ILLUSTRATED
PRICE LIST

. OF .

**MECHANICS' TOOLS
AND MACHINERY**

MANUFACTURED, FACTORED,
OR IMPORTED AND SOLD BY

CHARLES NURSE & CO., LTD.

Plane Makers, Tool Merchants and Cutlers,
181 & 183 WALWORTH ROAD,
LONDON, S.E. 17

REGISTERED OFFICES:

181 and 183 WALWORTH ROAD, LONDON, S.E. 17
TELEPHONE-CENTRAL 11521.

WAREHOUSES AND WORKSHOPS:

GOLWORTH GROVE, YORK ST., WALWORTH ROAD, S.E. 17
TELEPHONE-HOP 4585.

During the present very unsettled state of the markets,
special sheets shewing the current rate of advance over
printed prices will be issued from time to time as needed.